

**Cotransfection of 293Cre cells with pBHG10lox and
a "Lox" shuttle plasmid for generation of Ad expression vectors**

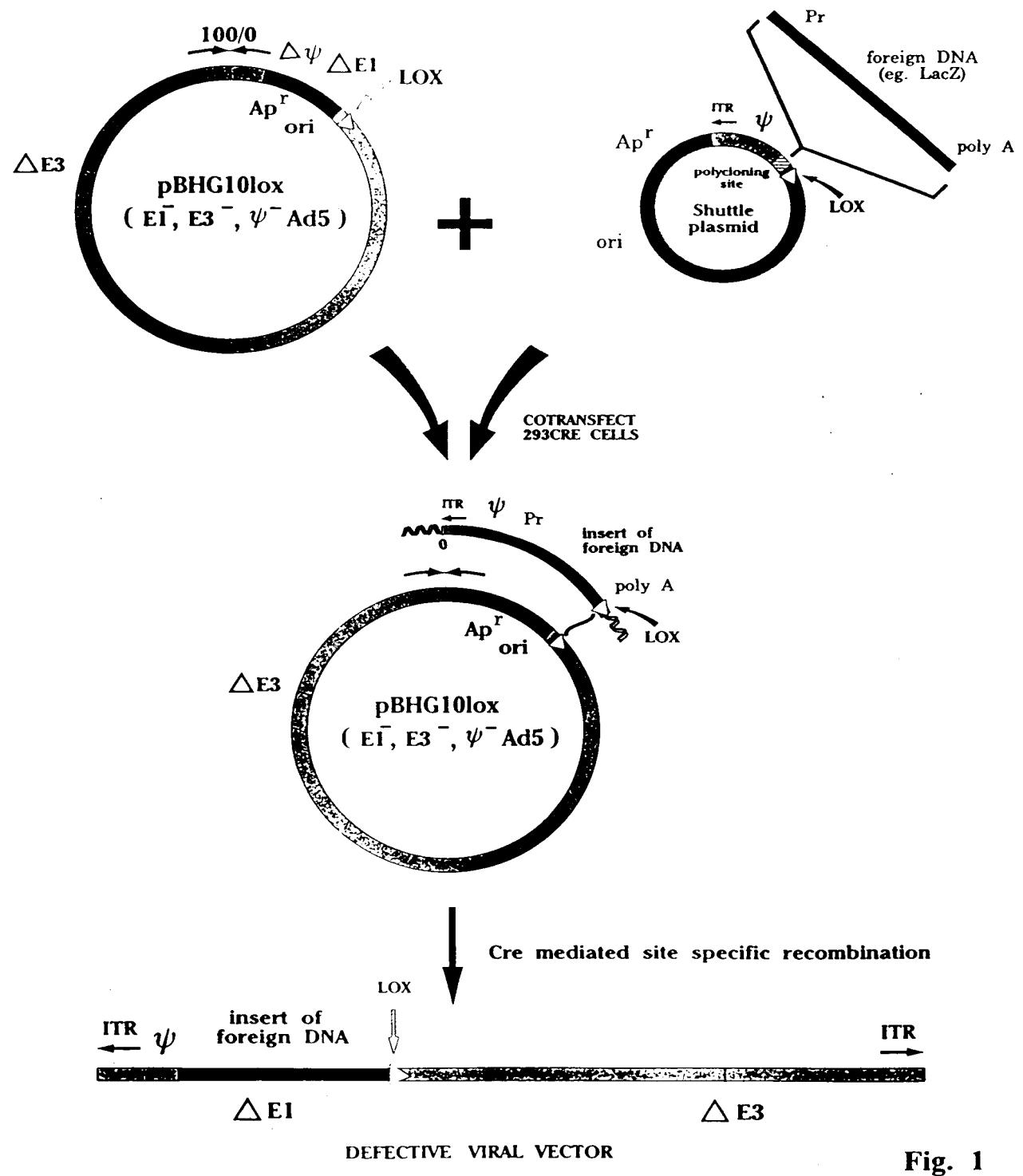


Fig. 1

Cotransfection of 293Cre cells with pBHG10lox and
a "lox" shuttle plasmid for generation of Ad expression vectors

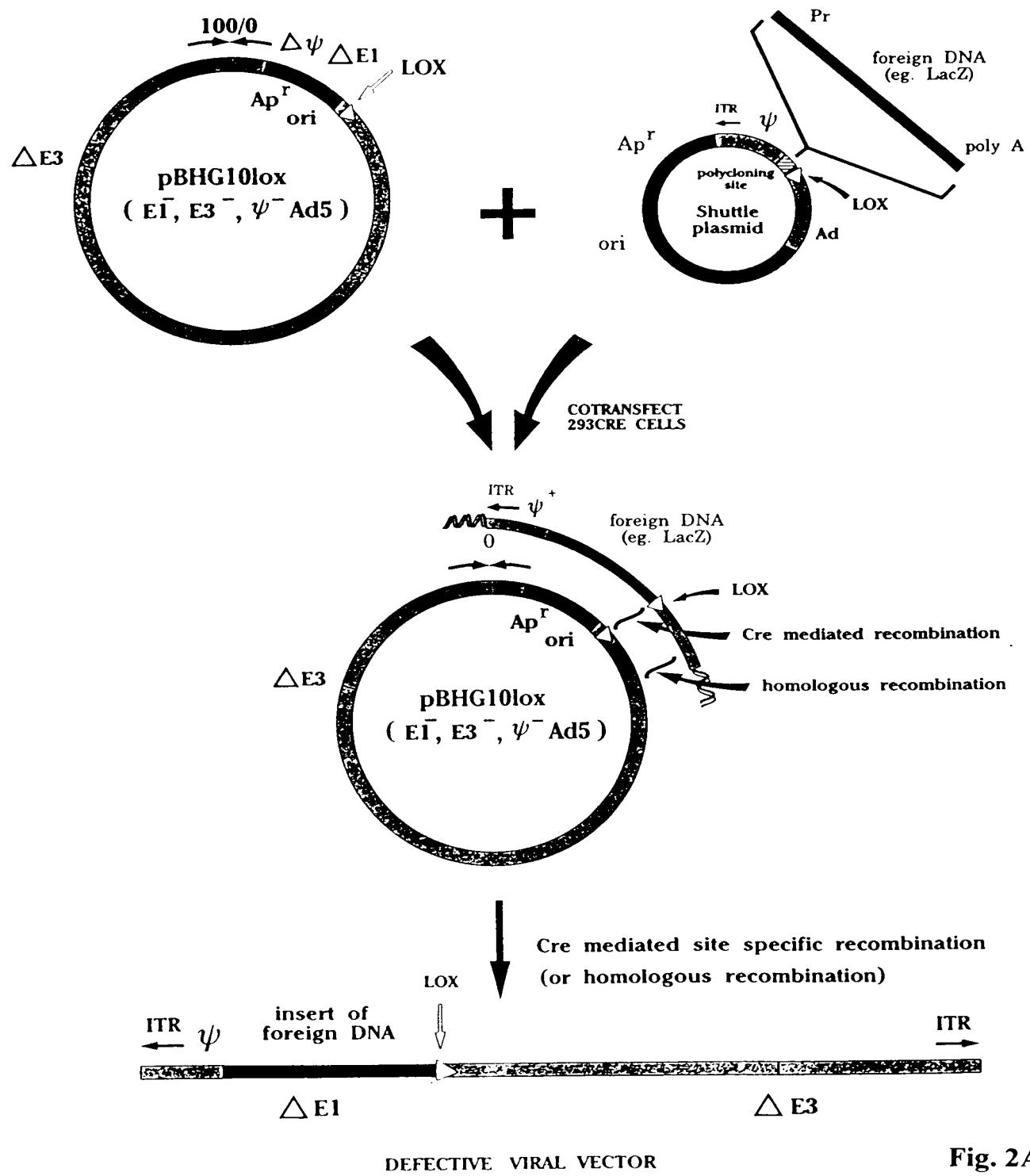


Fig. 2A

CONSTRUCTION OF VARIOUS SHUTTLE PLASMIDS

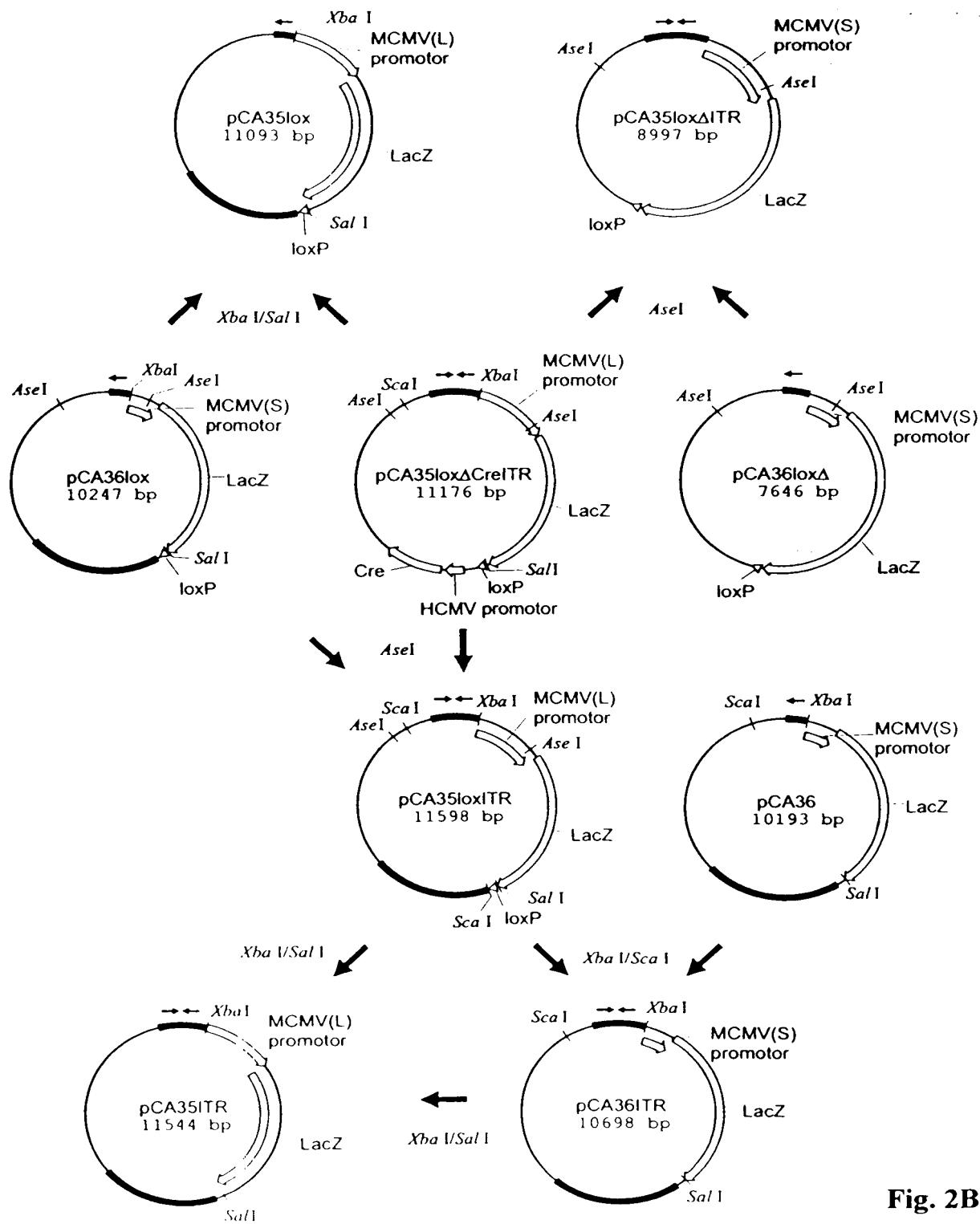
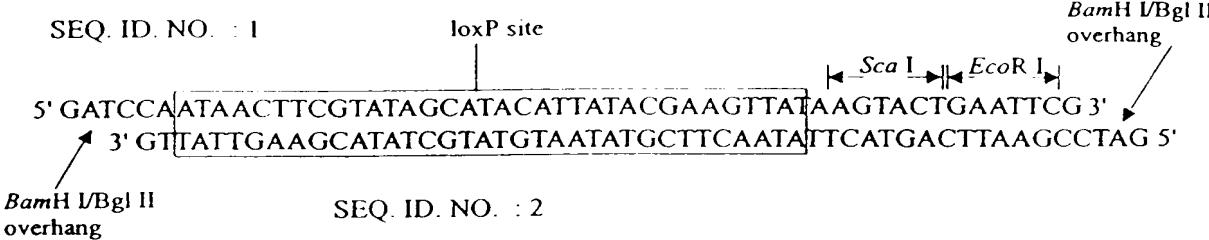


Fig. 2B

OLIGONUCLEOTIDES USED IN CLONING

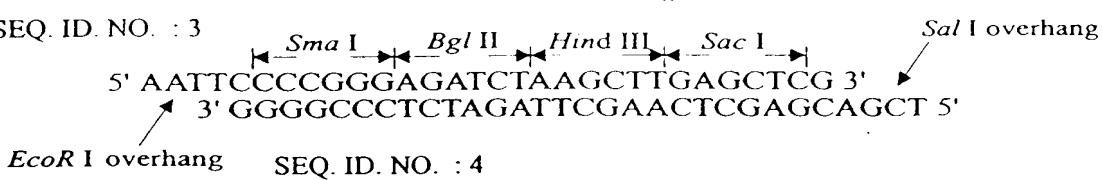
AB3233/3234 : loxP linker

SEQ. ID. NO. : 1



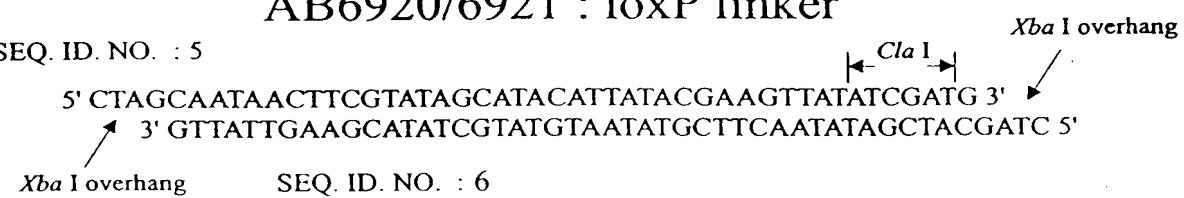
AB14626/14627 : Multiple Cloning Site

SEQ. ID. NO. : 3



AB6920/6921 : loxP linker

SEQ. ID. NO. : 5



AB14680/14681 : loxP linker

SEQ. ID. NO. : 7

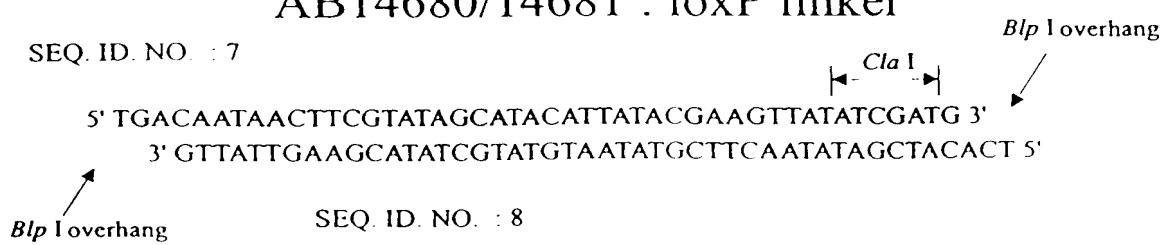


Fig. 3

CONSTRUCTION OF A CIRCULAR GENOMIC PLASMID FOR Ad VECTOR RESCUE USING THE Cre/ loxP SYSTEM

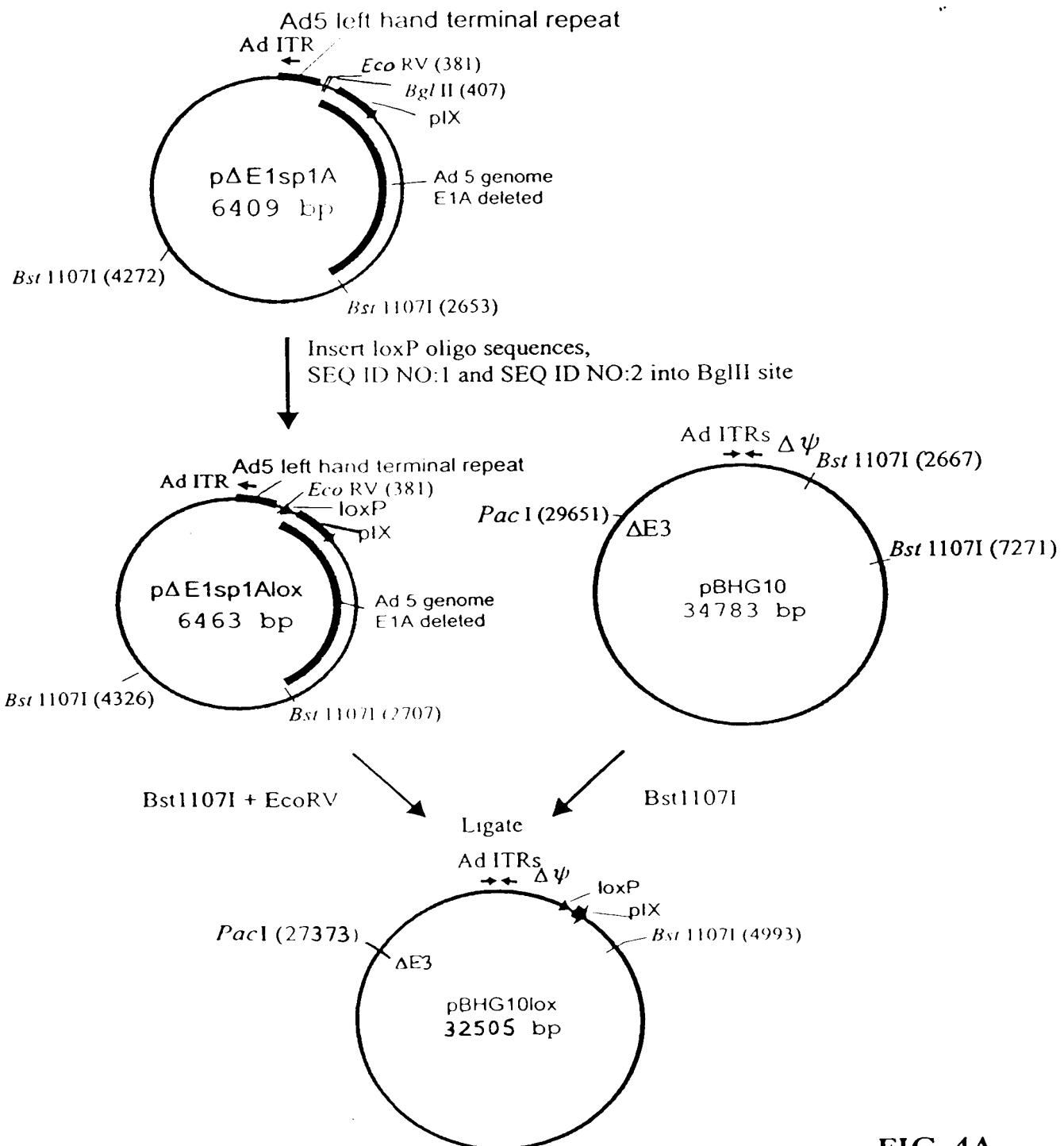


FIG. 4A

CONSTRUCTION OF pBHGdX1P_{lox}

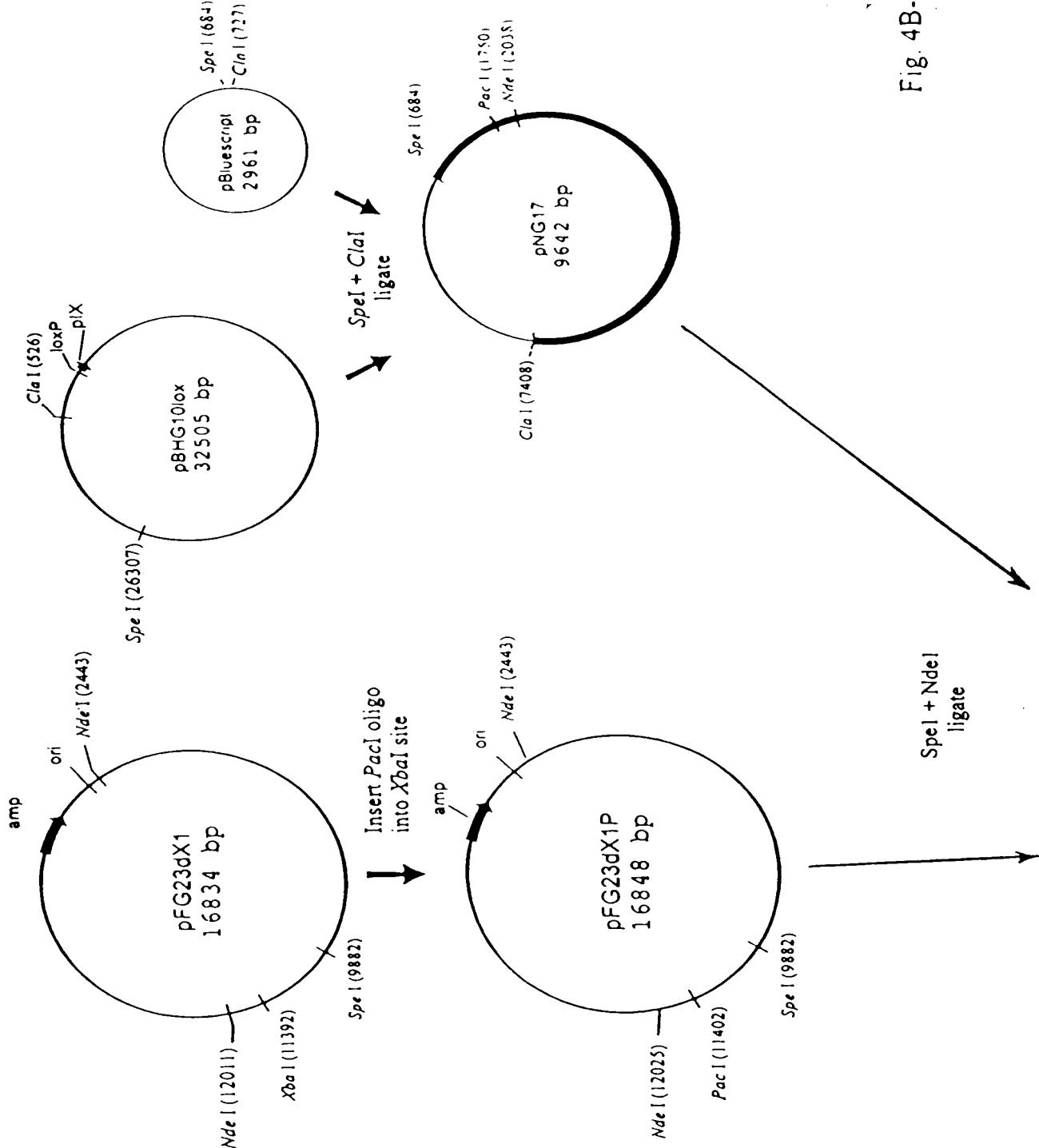
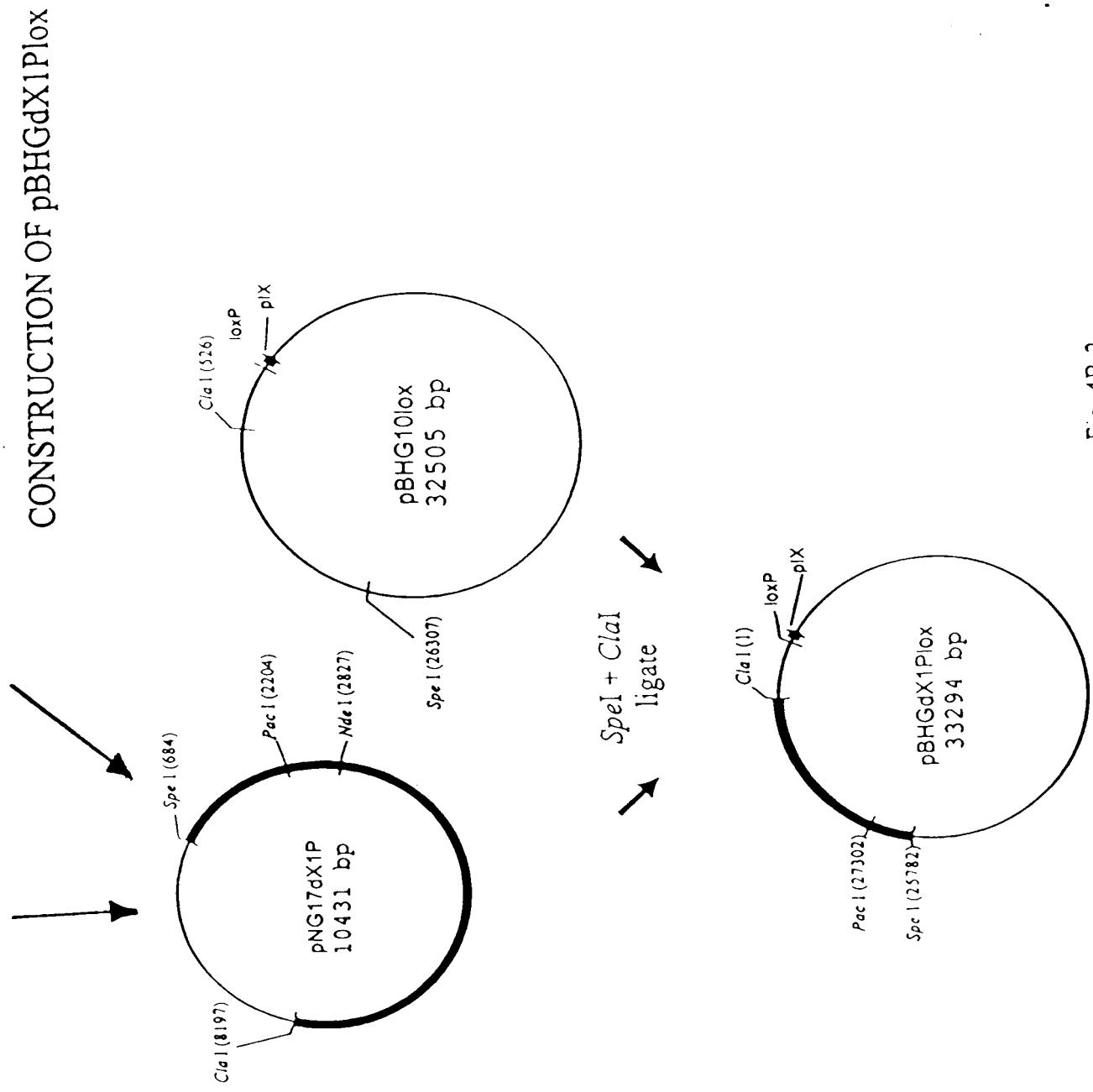


Fig. 4B-1

Fig. 4B-2



CONSTRUCTION OF pBHGE3lox

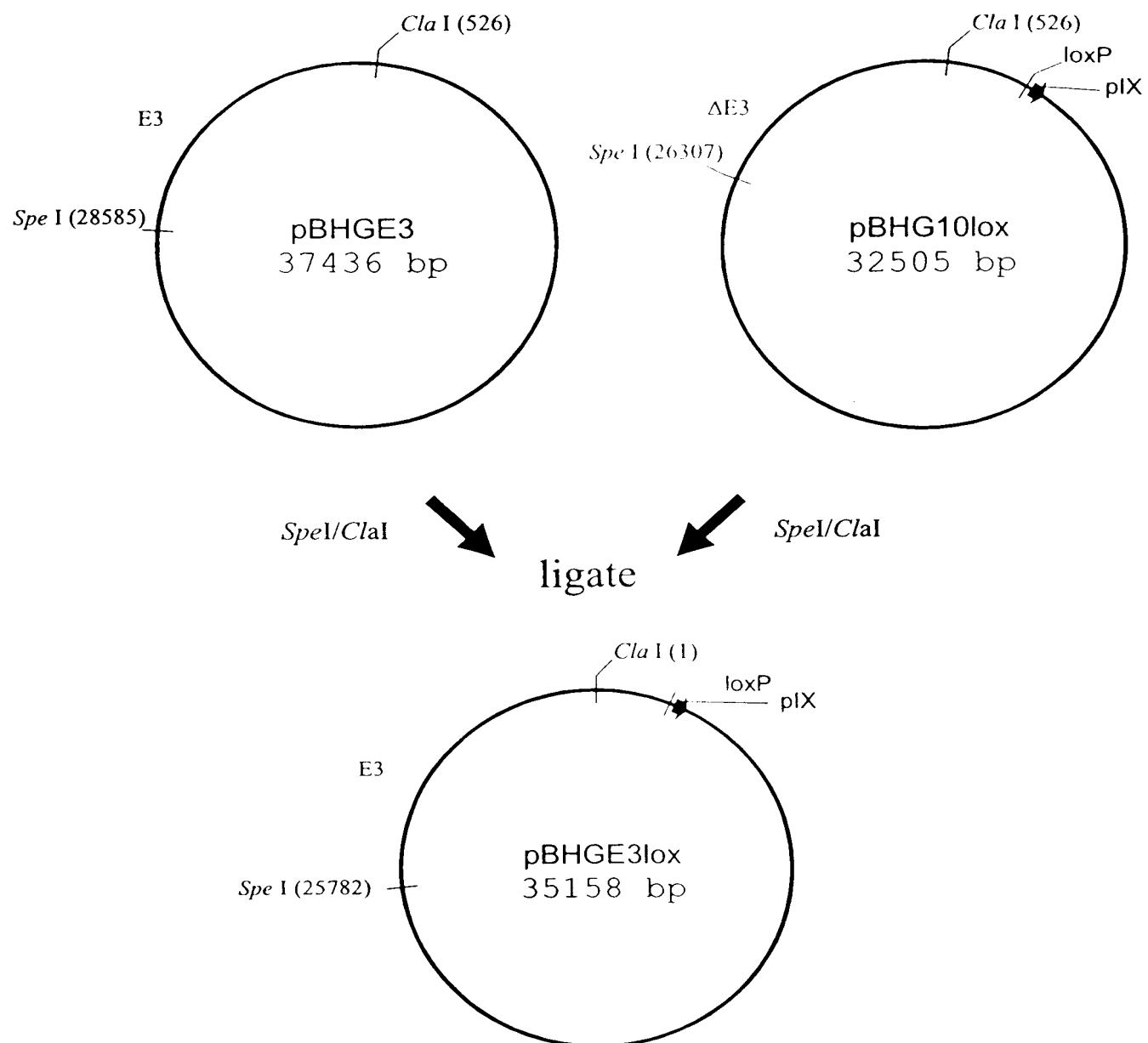


Fig. 4C

CONSTRUCTION OF Ad GENOMIC PLASMIDS ENCODING CRE

REPRODUCED WITH PERMISSION FROM THE JOURNAL OF VIROLOGY, VOL. 73, NO. 10, OCTOBER 1999, PAGES 6511-6518.

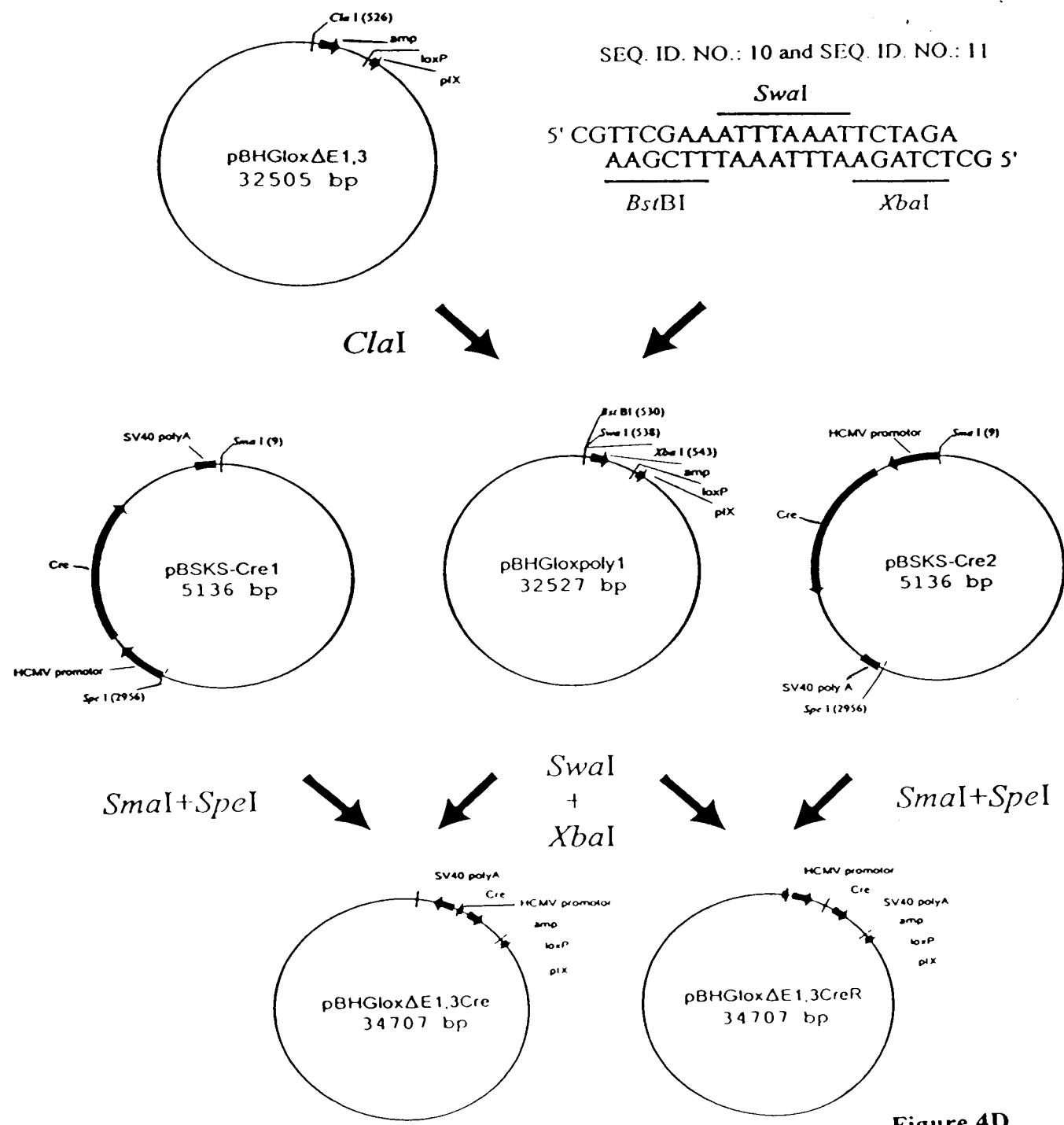


Figure 4D

CONSTRUCTION OF pΔE1SP1A & pΔE1SP1B loxP PLASMIDS FOR RESCUE OF FOREIGN DNA

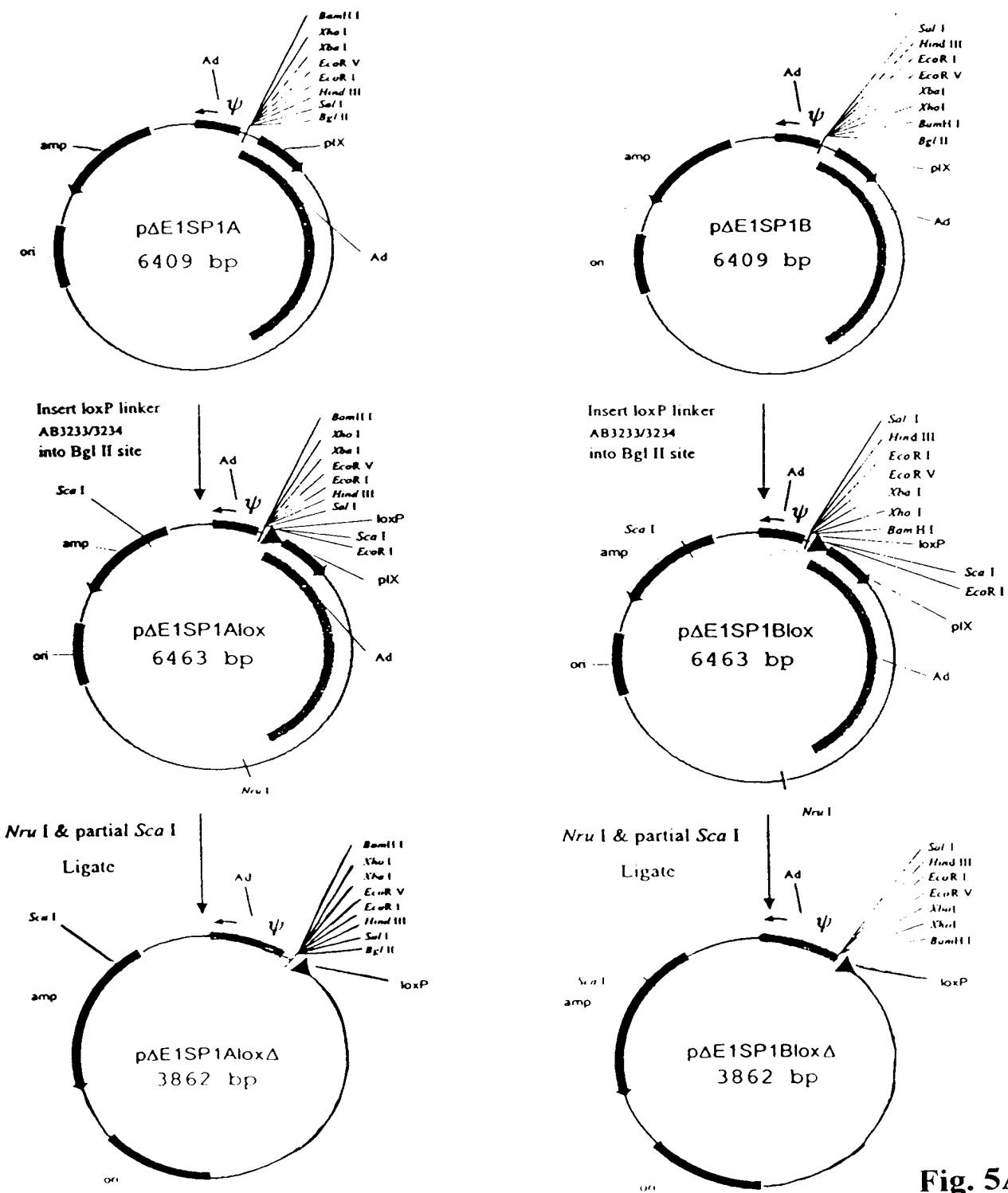


Fig. 5A

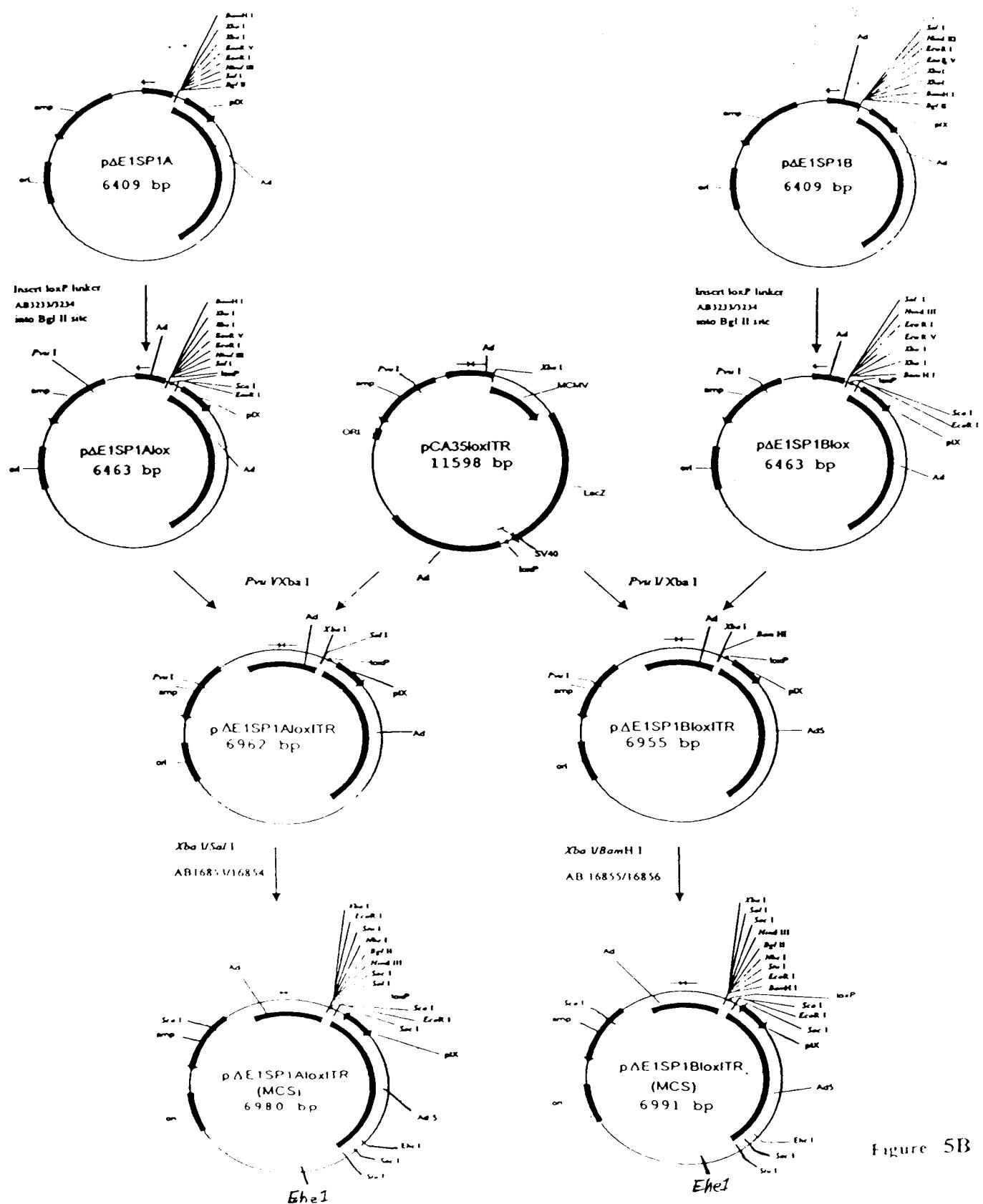
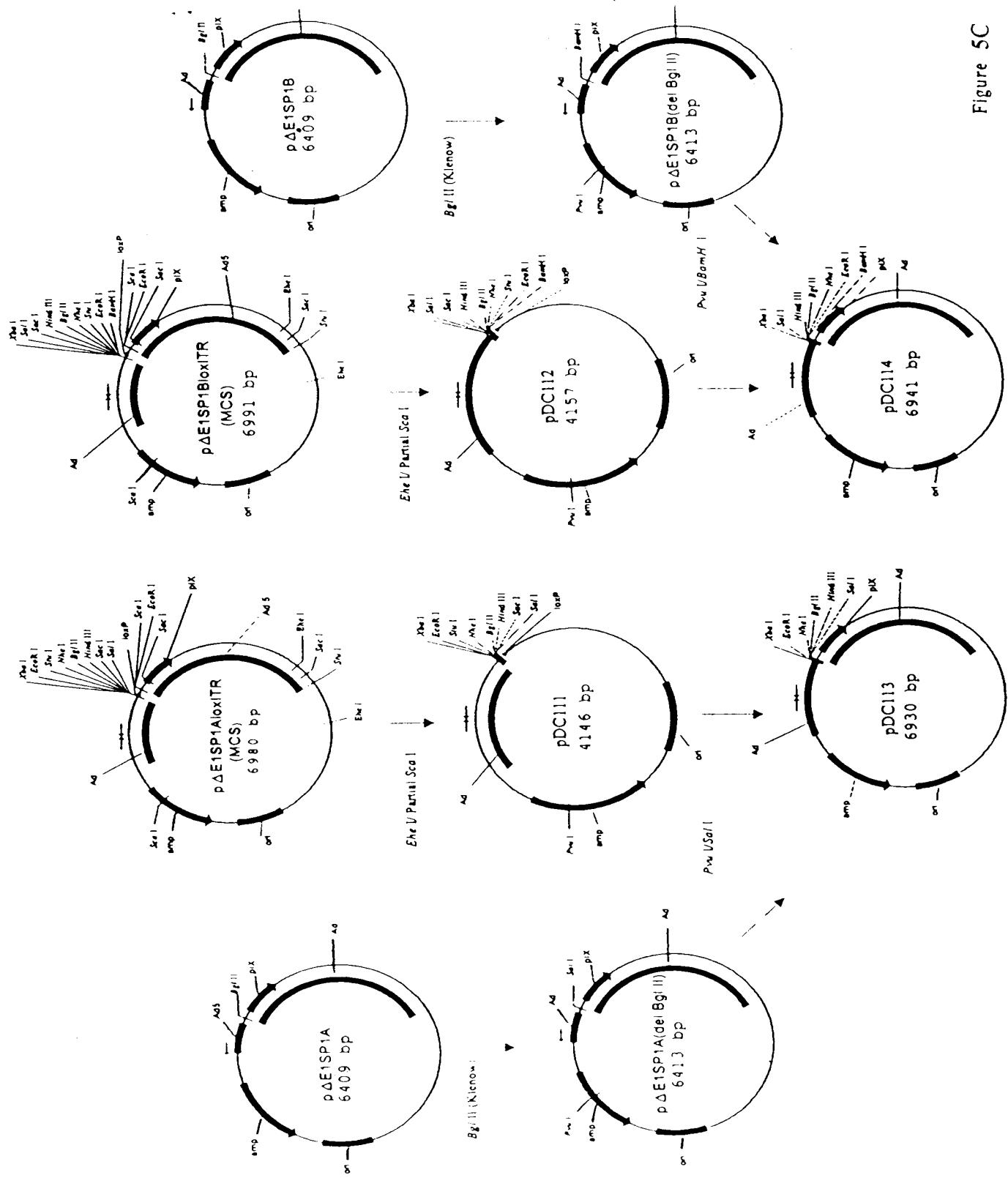
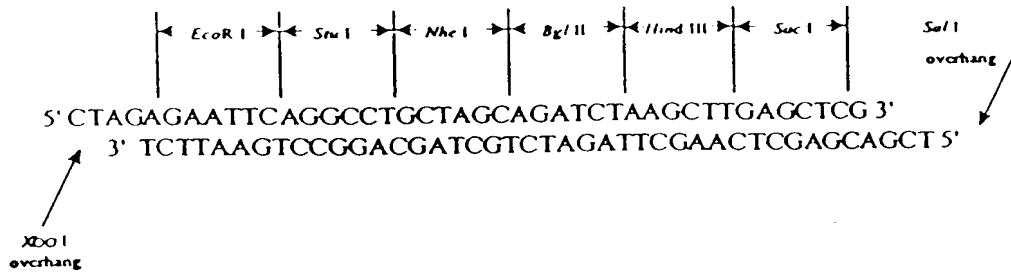


Figure 5B

Figure 5C



SEQ. ID. NO.: 12 (AB16853) and SEQ. ID. NO.: 13 (AB16854)



SEQ. ID. NO.: 14 (AB16855) and SEQ. ID. NO.: 15 (AB16856)



Figure 5D

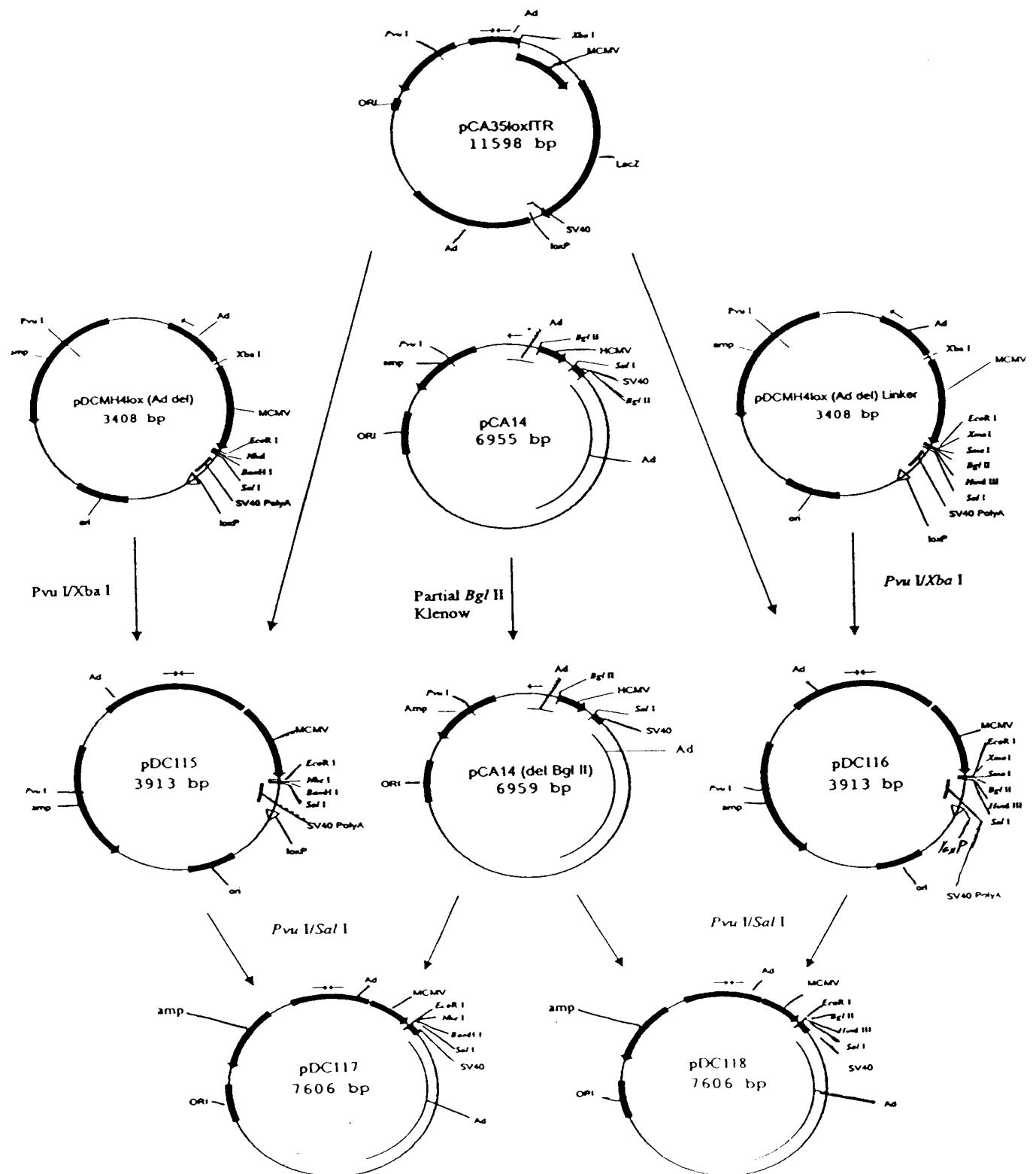


Figure 5E

CONSTRUCTION OF pMH4LOX, pMH4LOX Δ and pMH4LOX Δ LINK SHUTTLE PLASMIDS FOR RESCUE OF EXPRESSION CASSETTES

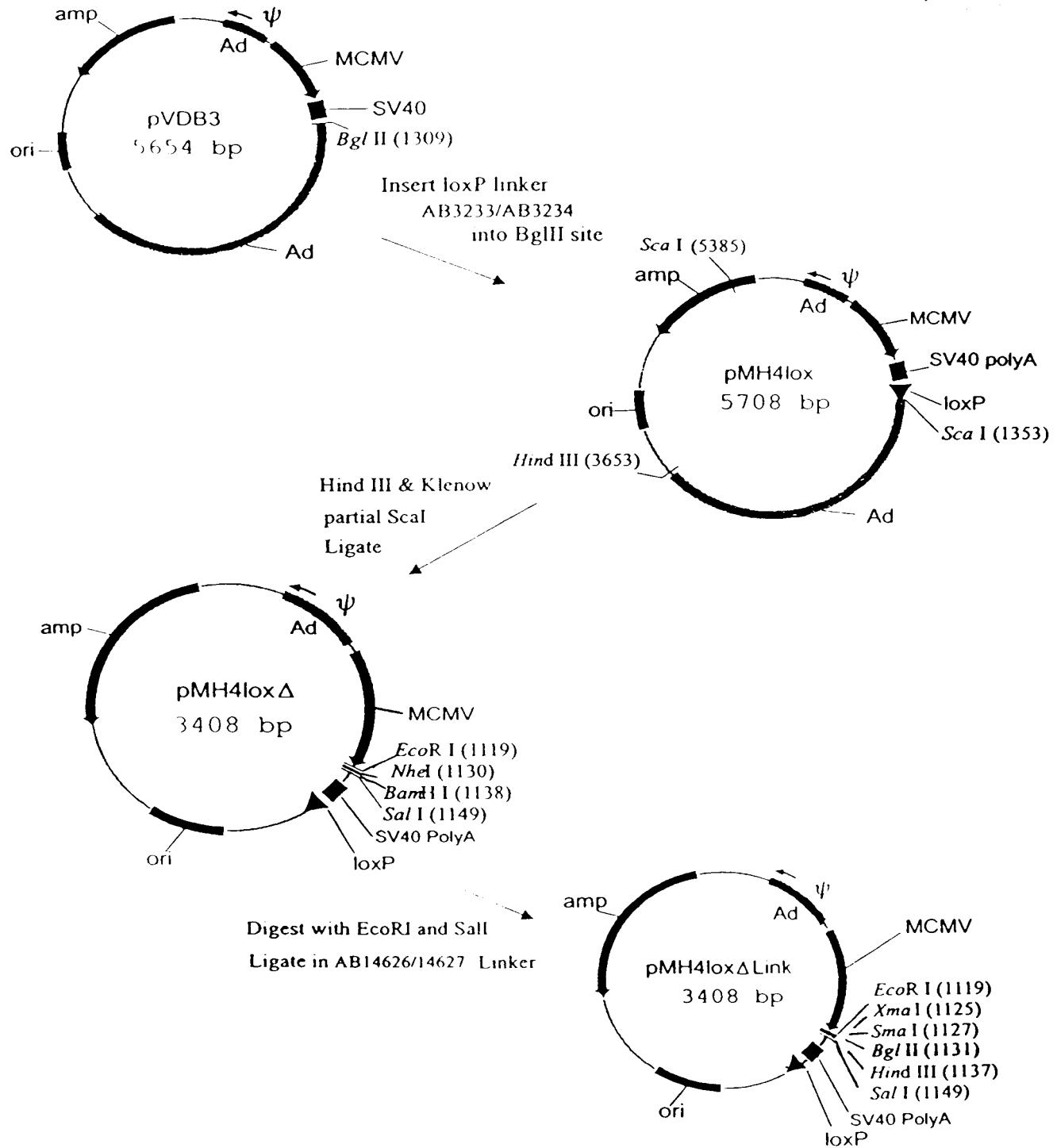


Fig. 6A

CONSTRUCTION OF A SHUTTLE PLASMID CONTAINING A pUC DERIVED ORIGIN

REPRINTED FROM JOURNAL OF VIROLOGY, VOL. 57, NO. 1, JANUARY 1985, PAGES 103-108

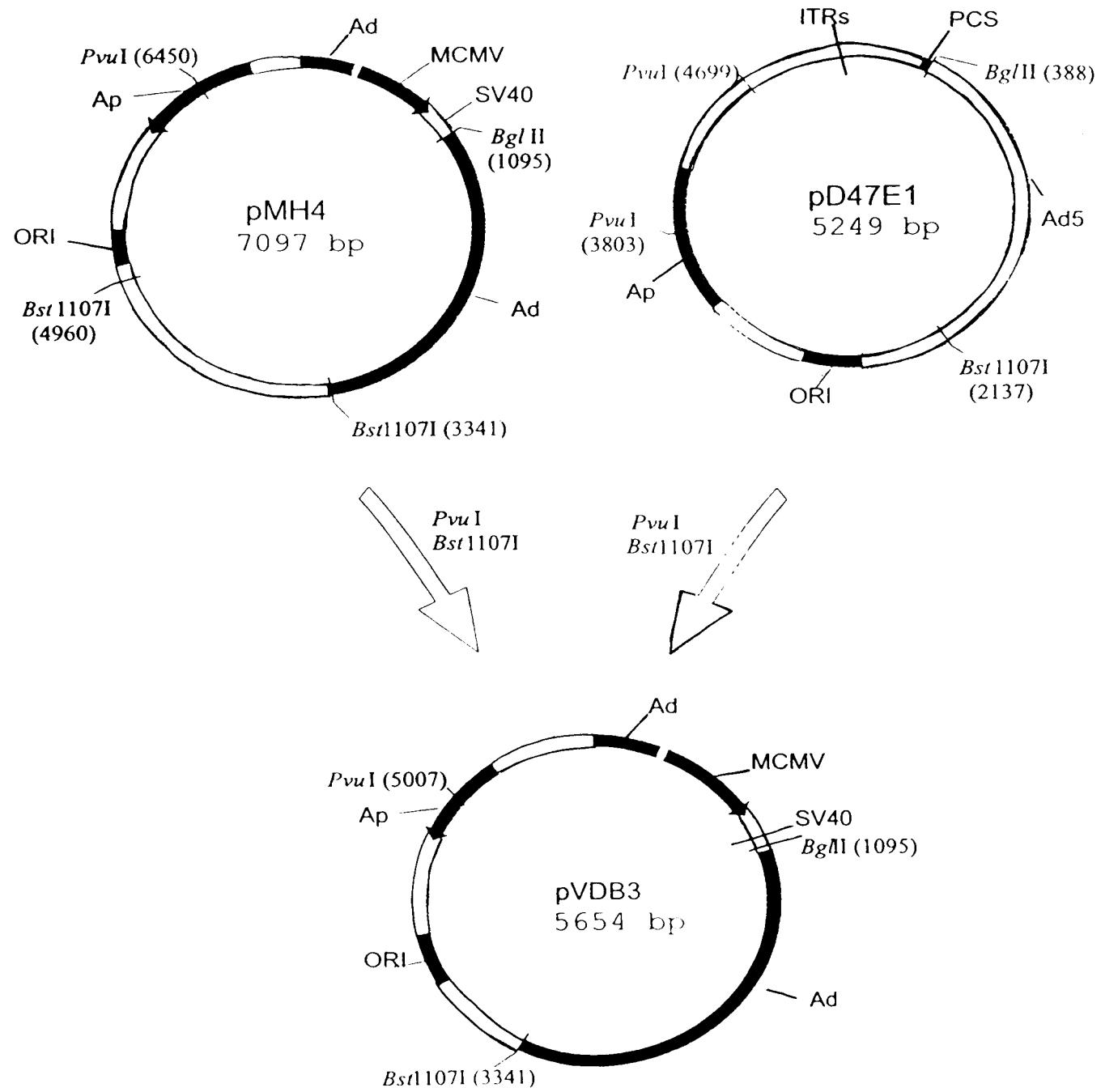


Fig. 6B

CONSTRUCTION OF HCMV loxP PLASMIDS FOR RESCUE OF EXPRESSION CASSETTES

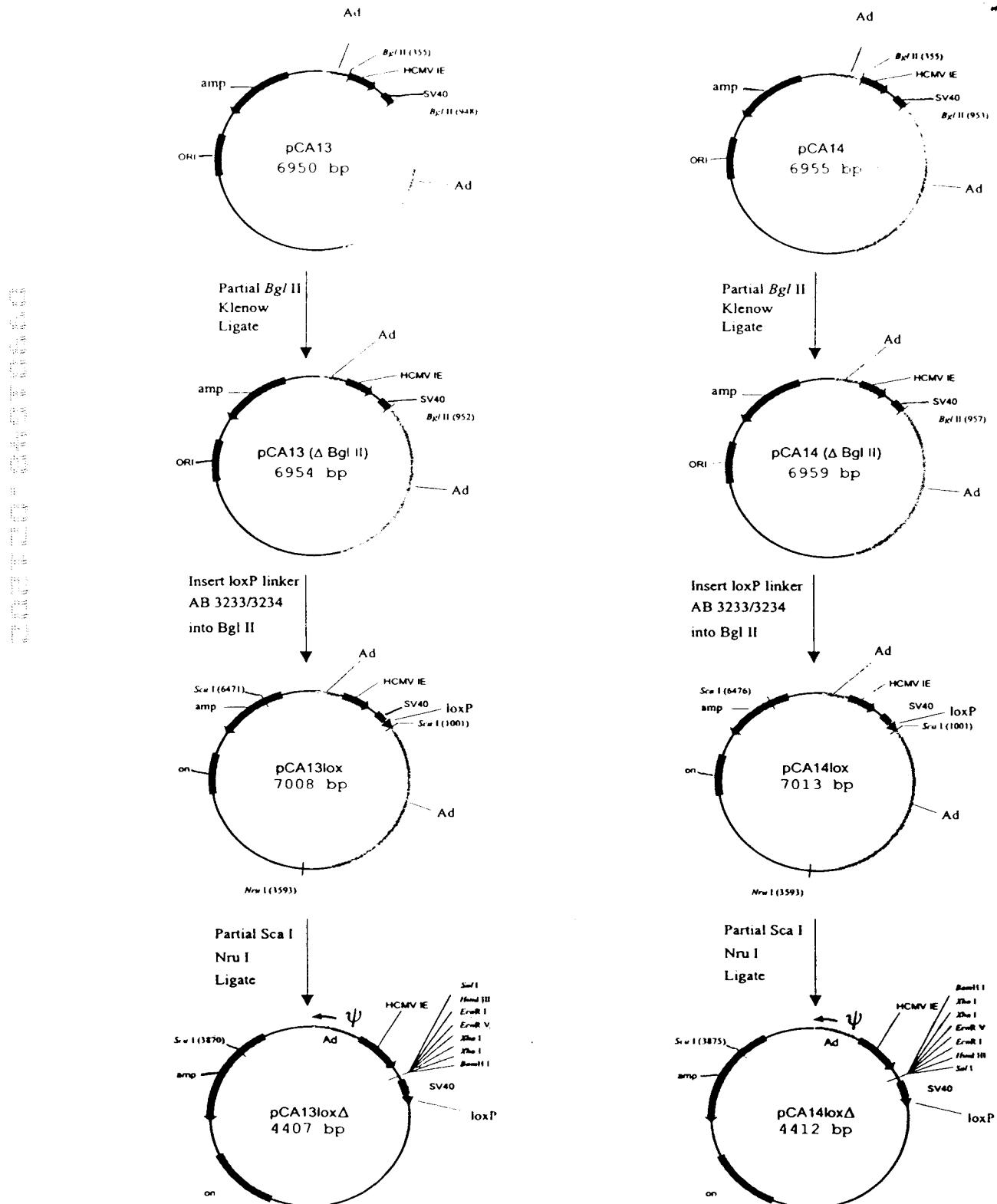


Fig. 7

CONSTRUCTION OF pCA36LOX and pCA36LOX Δ SHUTTLE PLASMIDS FOR RESCUE OF LACZ

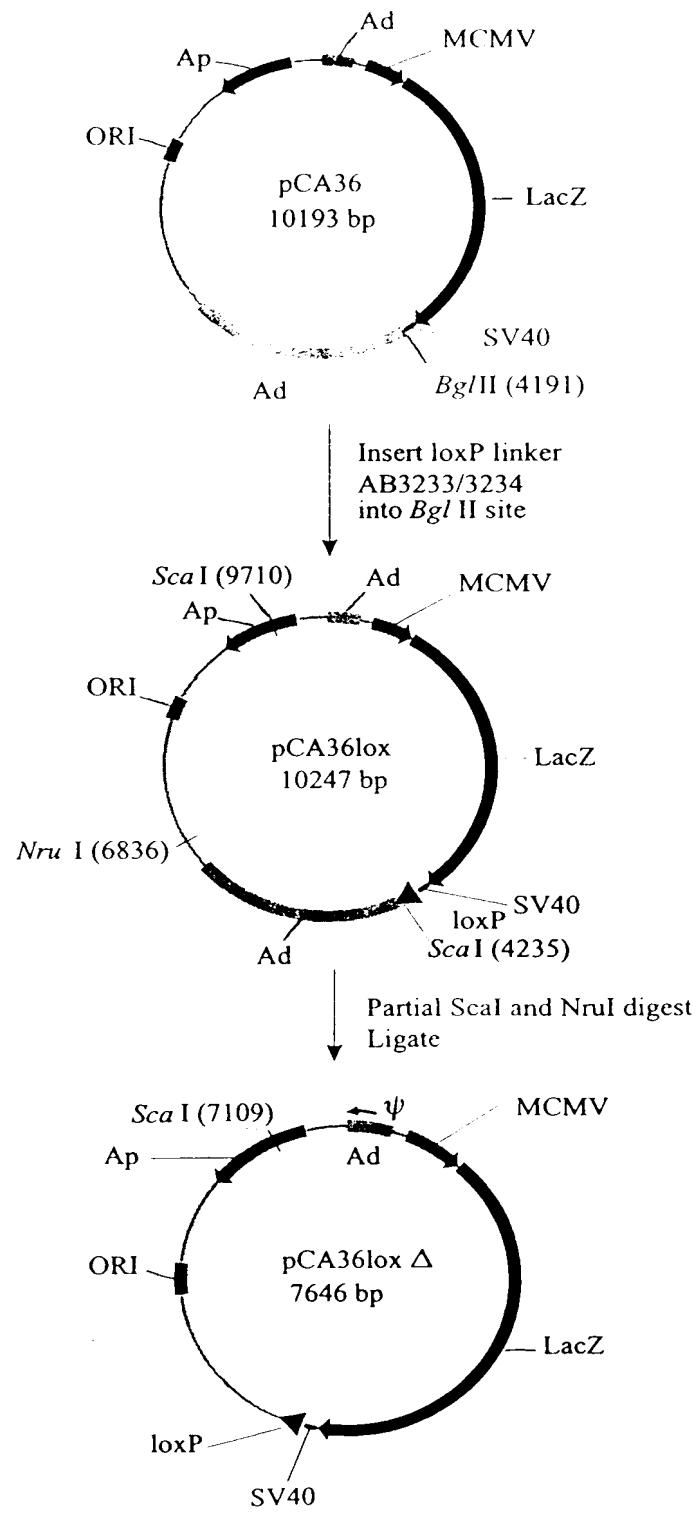


Fig. 8A

Cotransfection of 293Cre cells with AdLC8c DNA-TP and a shuttle plasmid containing a loxP site for generation of Ad expression vectors

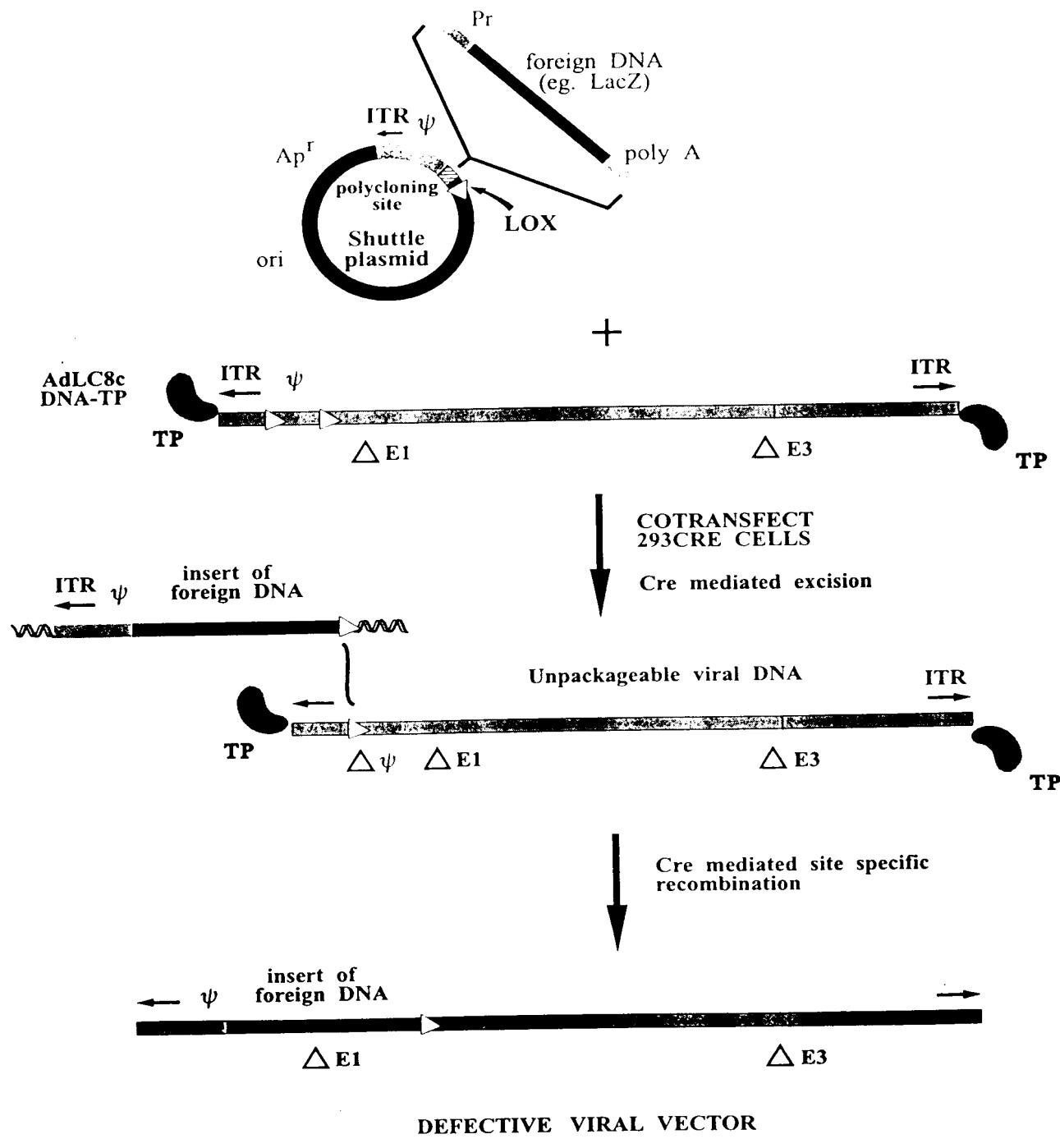
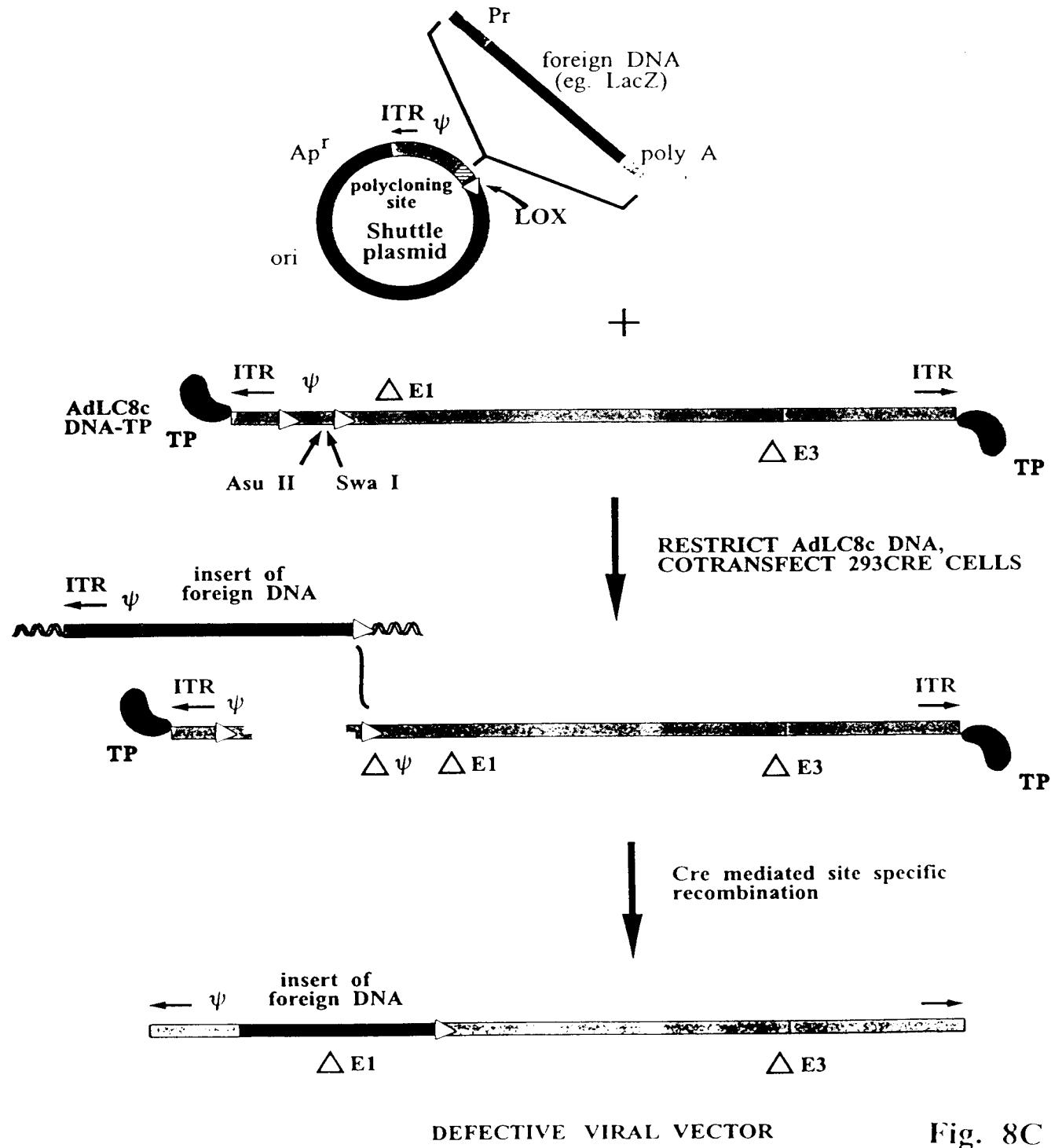


Fig. 8B

● ●

Cotransfection of 293Cre cells with restricted AdLC8c DNA-TP and loxP shuttle plasmid for generation of Ad expression vectors



DEFECTIVE VIRAL VECTOR

Fig. 8C

CONSTRUCTION OF SHUTTLE PLASMIDS EXPRESSING Cre

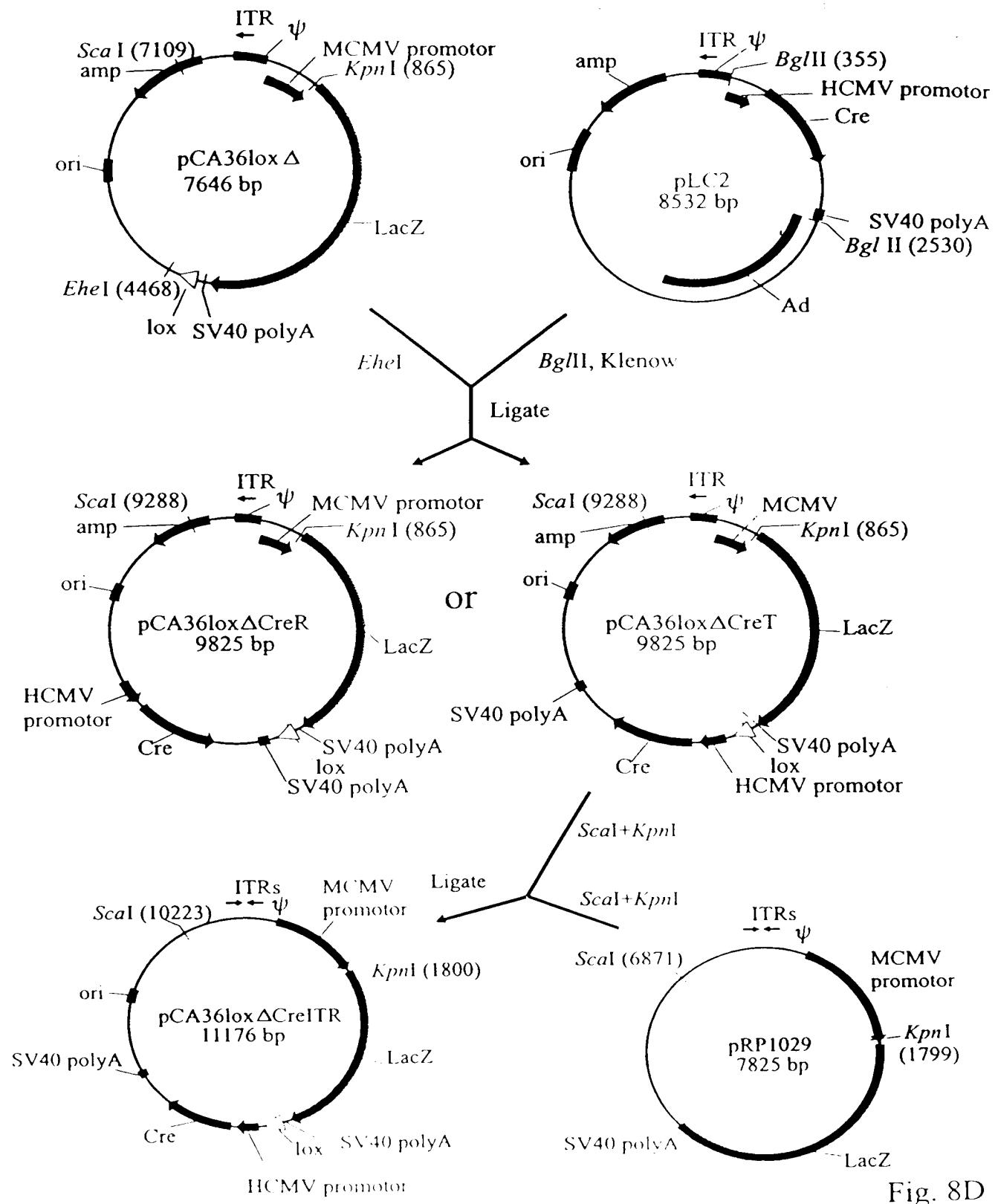


Fig. 8D

CONSTRUCTION OF Ad GENOMIC PLASMID ENCODING CRE

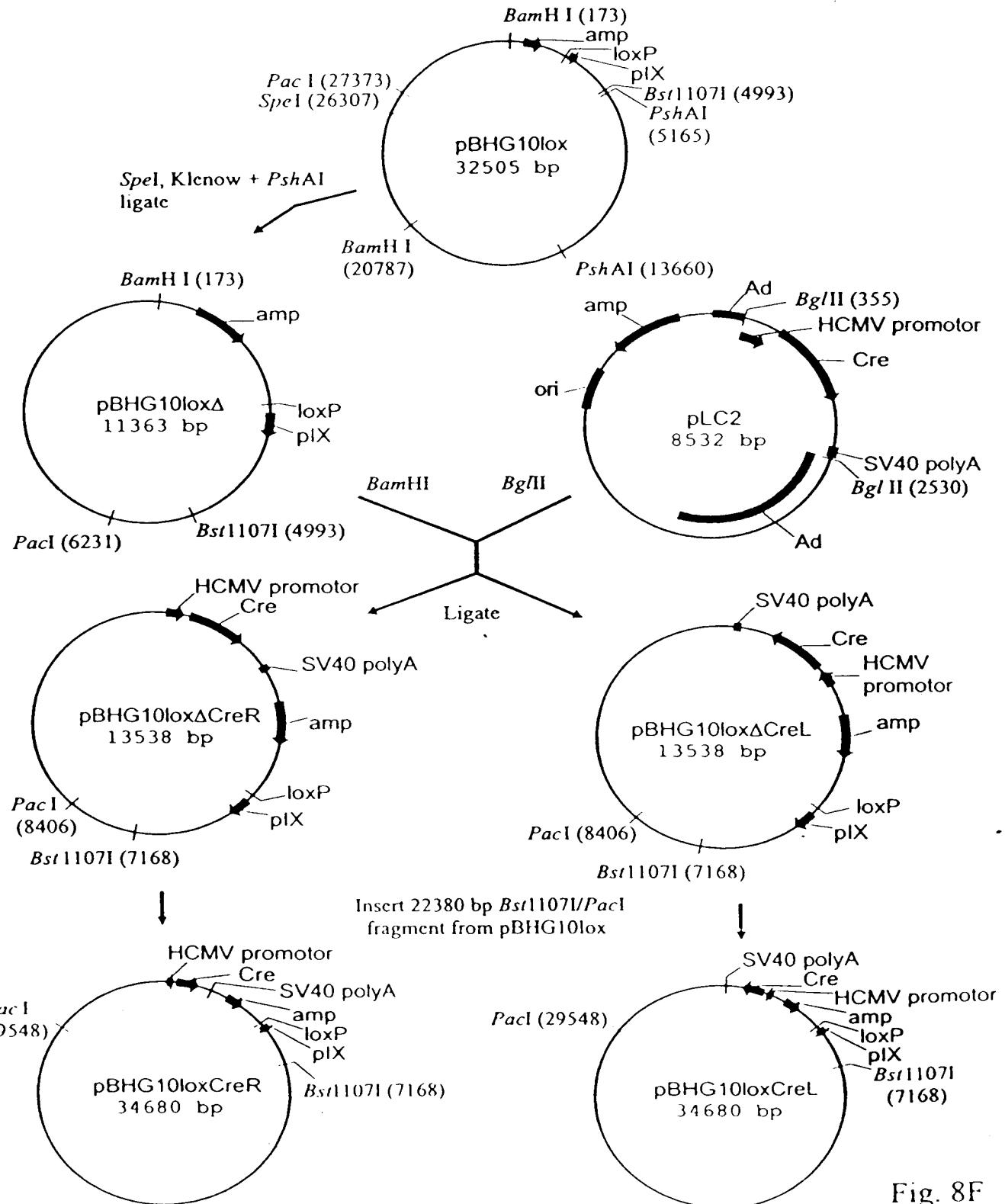


Fig. 8F

CONSTRUCTION OF pAB14lox Δ

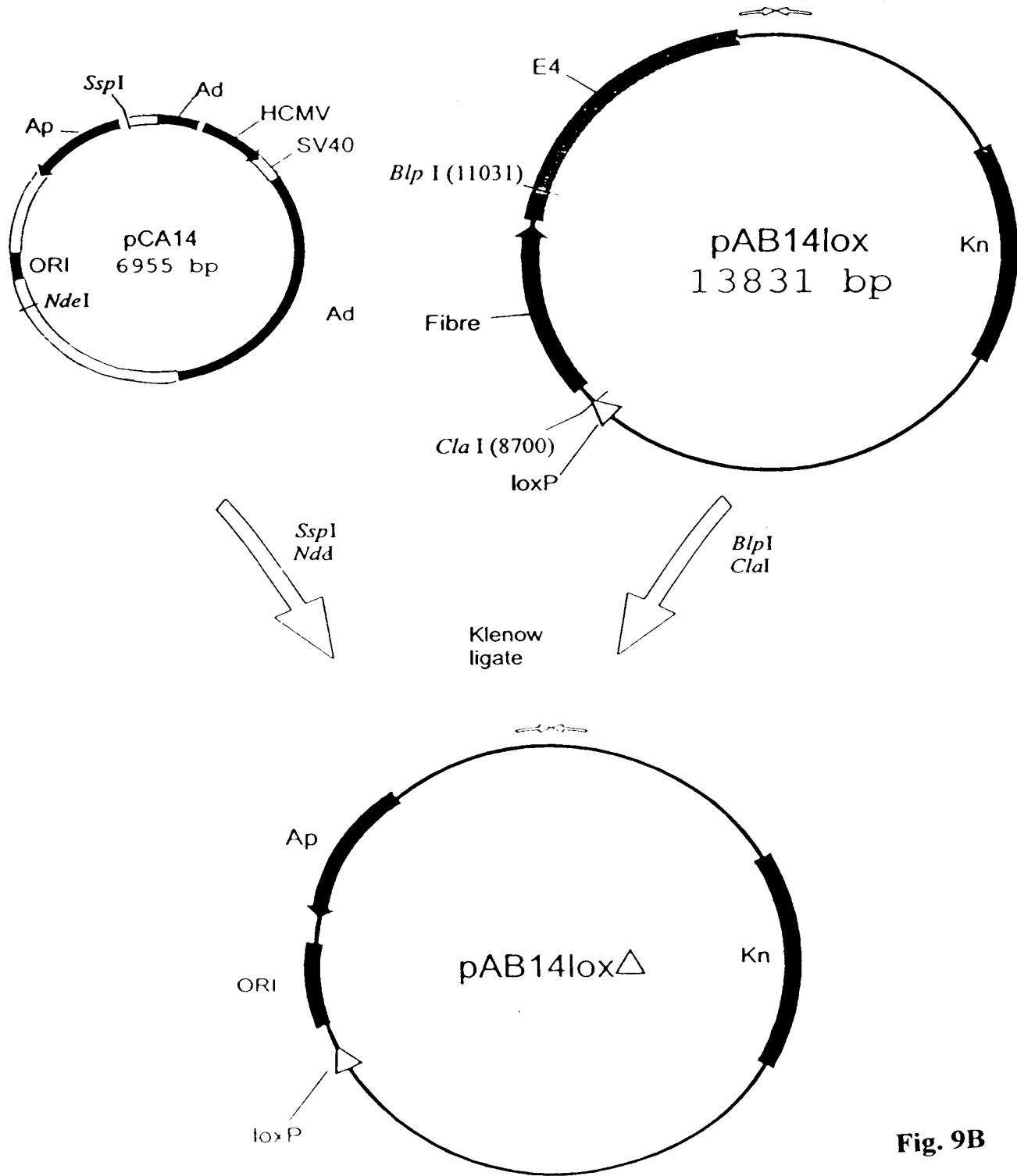
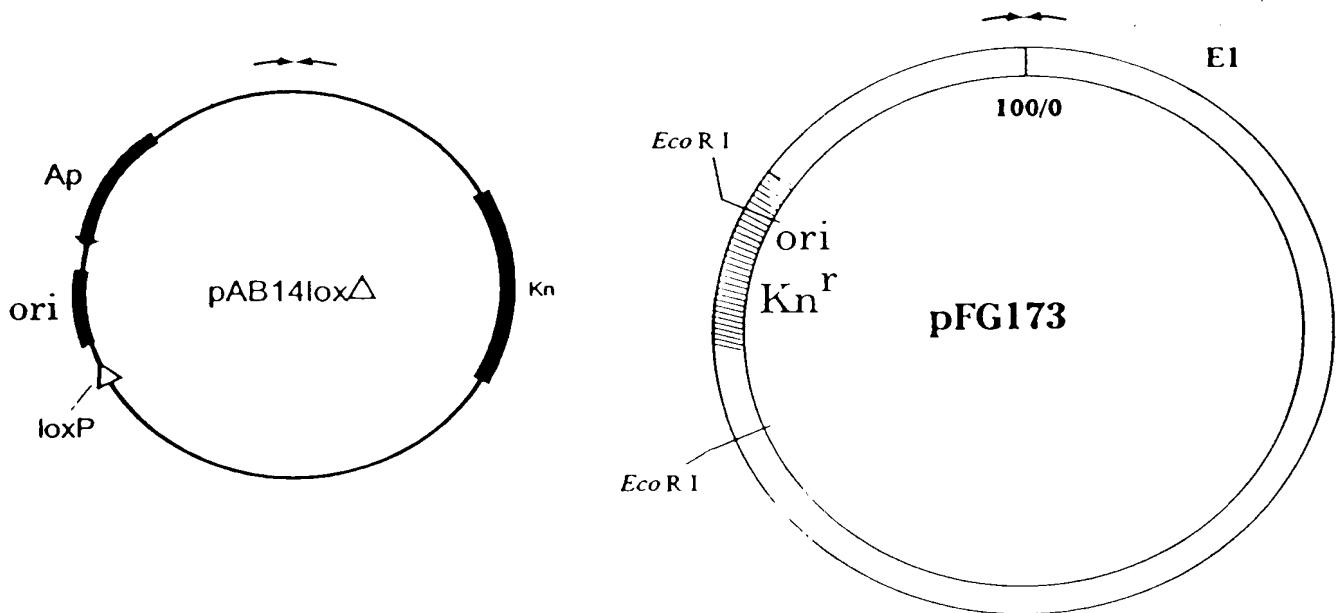


Fig. 9B

CONSTRUCTION OF pFG173lox



**Restriction, transformation of E. coli,
homologous recombination**

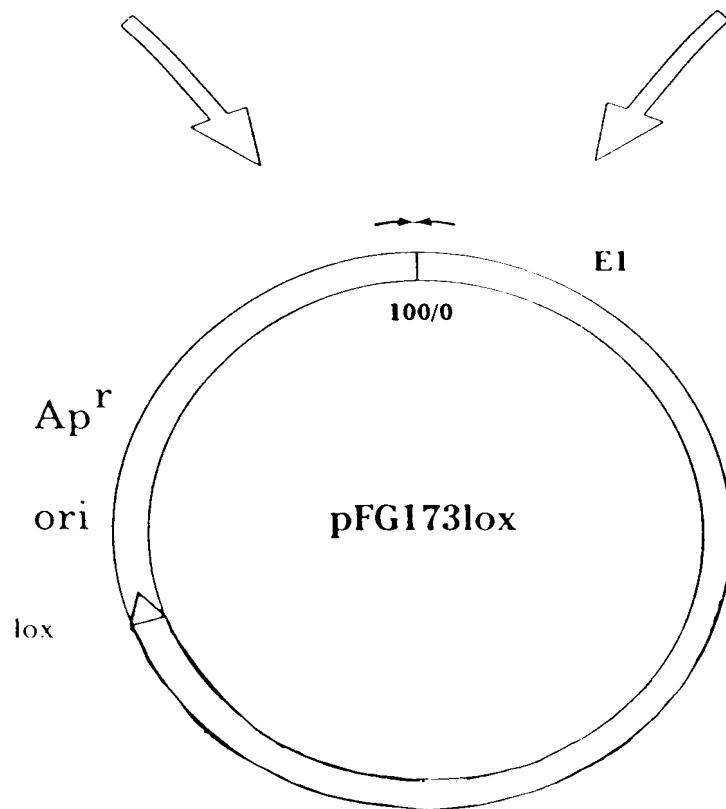


Fig. 9C

CONSTRUCTION OF pFG23dX1lox AND pFG23dX1lox_C FOR RESCUE OF MUTANT FIBRE INTO AD VIRUS

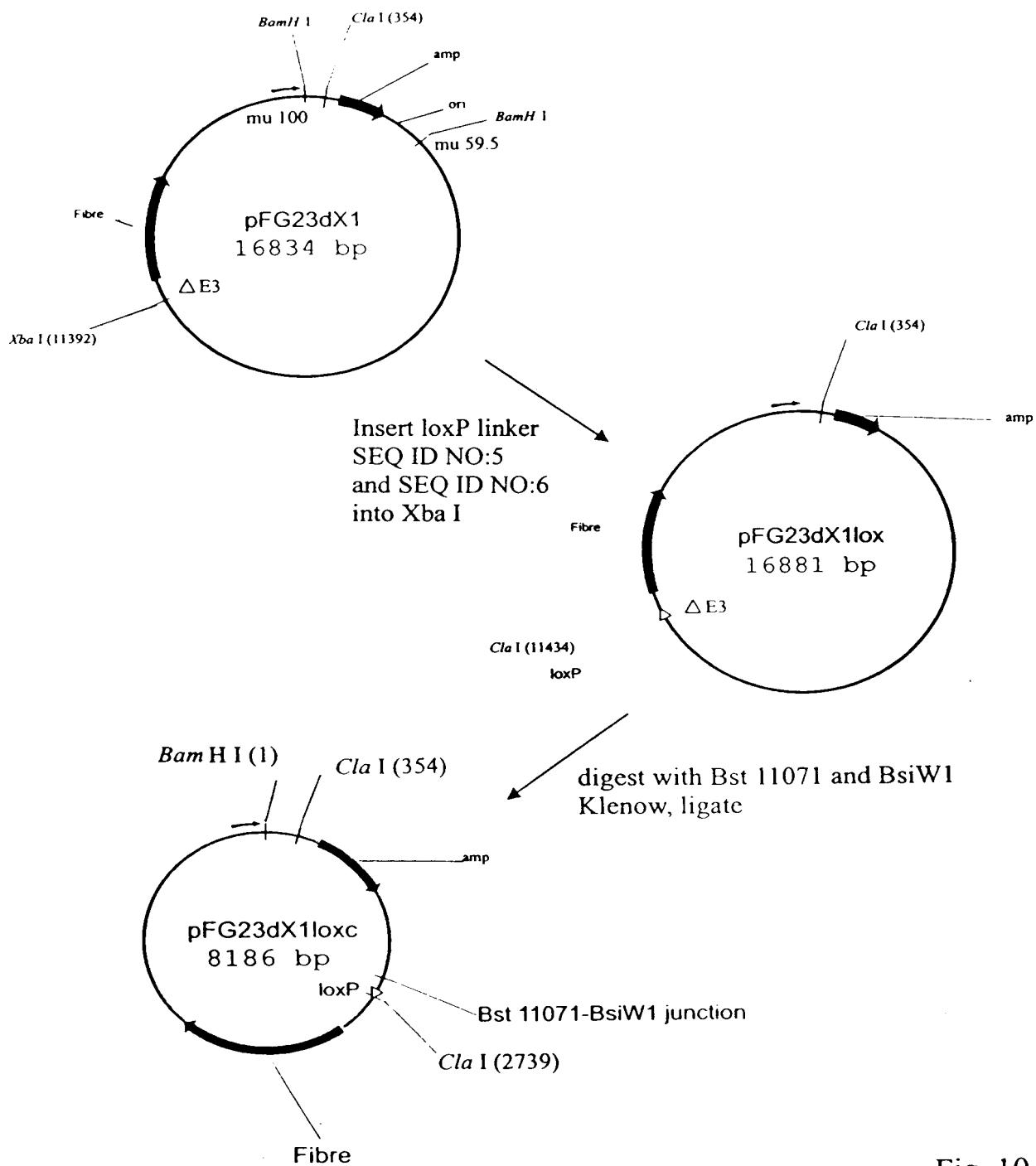


Fig. 10

A PLASMID FOR RESCUE OF A FOREIGN DNA INTO AD VIRUS

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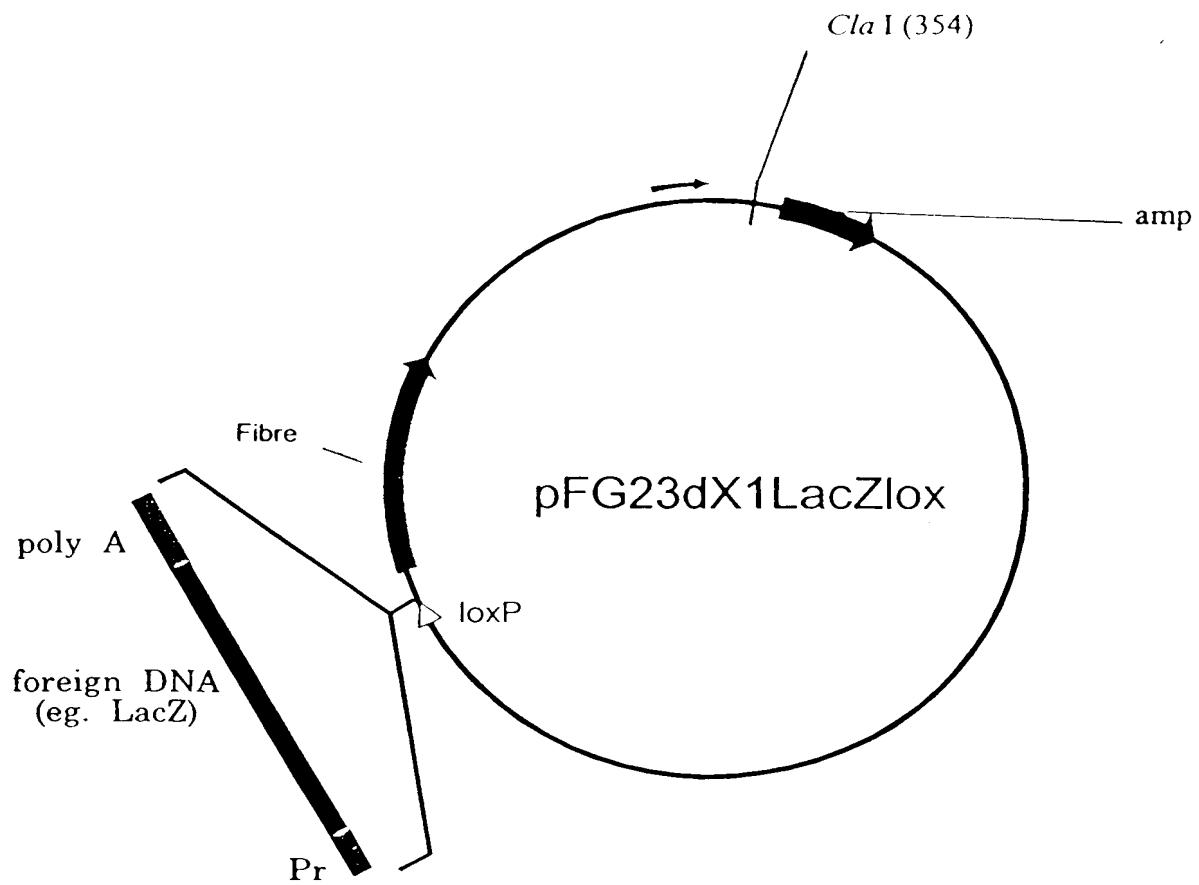


Fig. 11A

RESCUE OF FIBRE MUTATIONS USING CRE/LOX RECOMBINATION

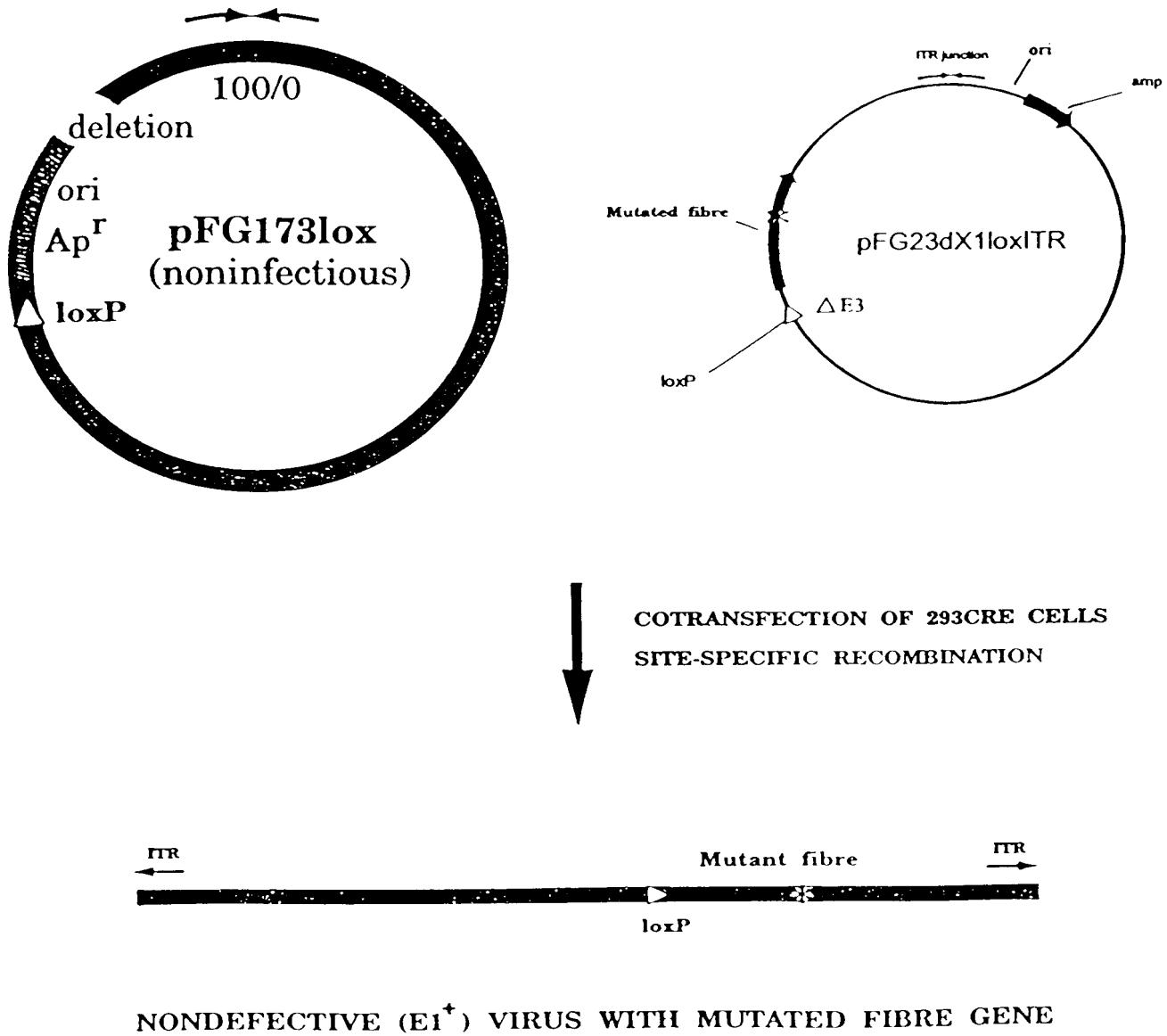


Fig. 11B

**Isolation of a virus containing a mutant fibre gene
by Cre-lox recombination using DNA-TP and cotransfection**

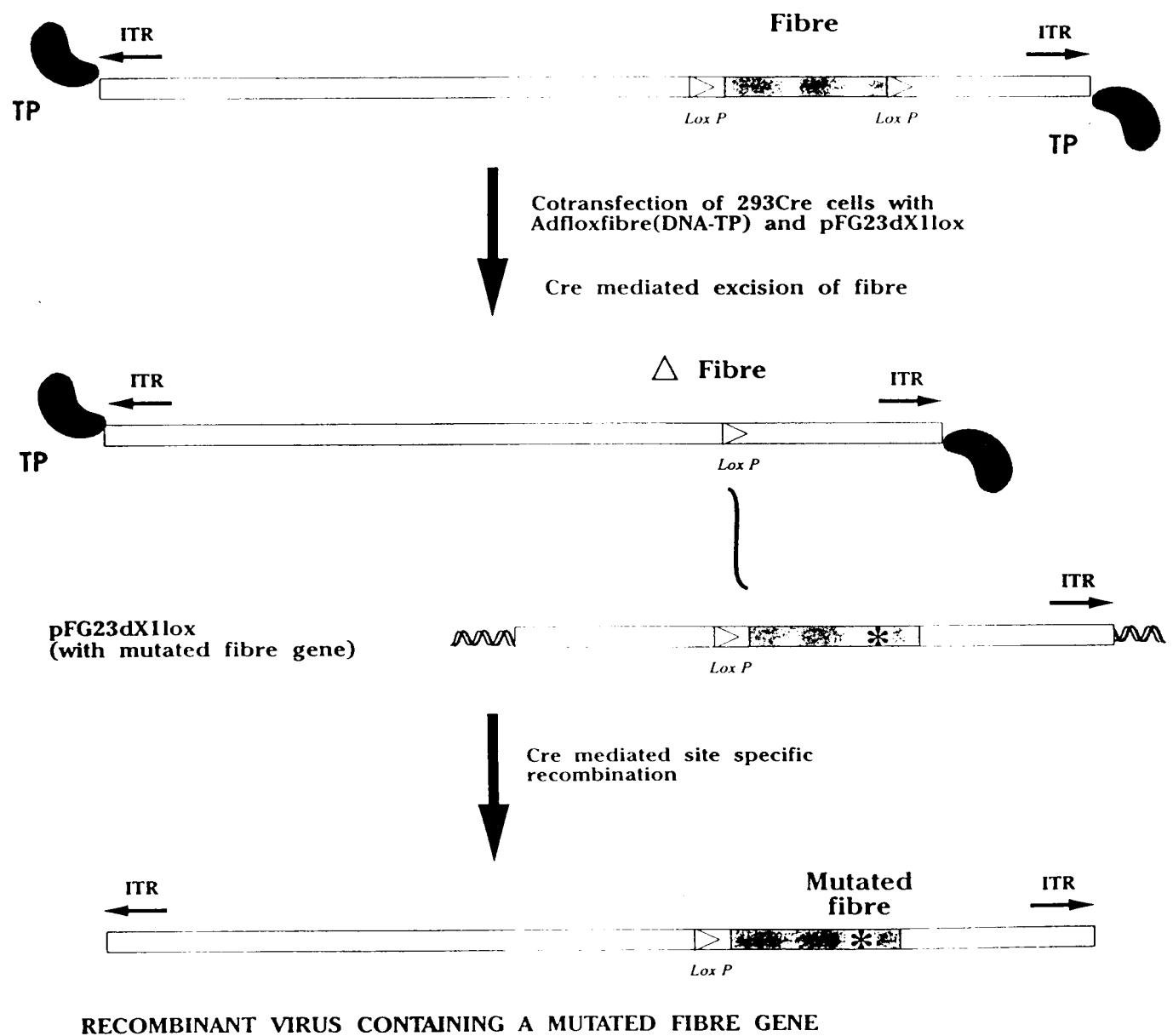
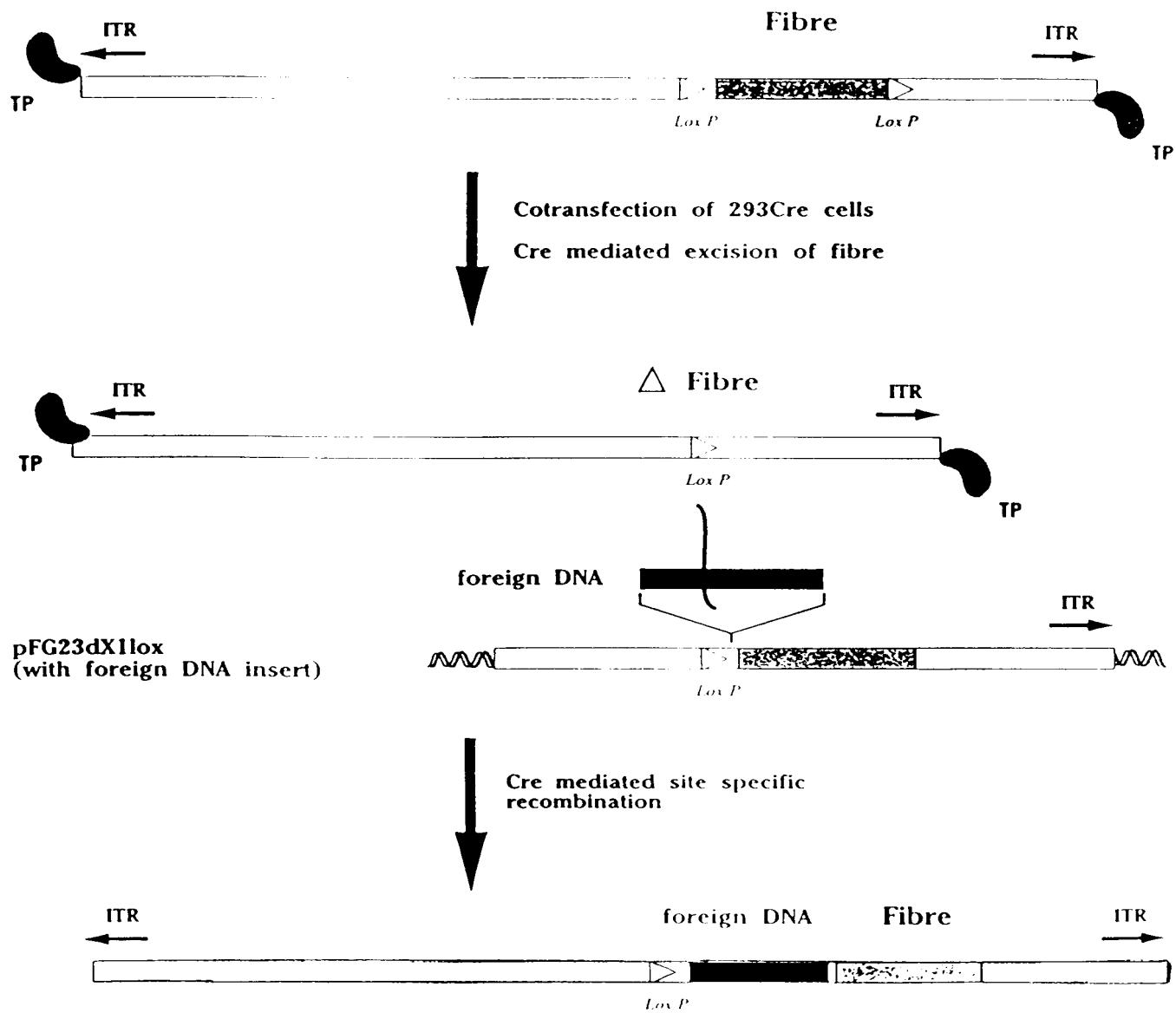


Fig. 12

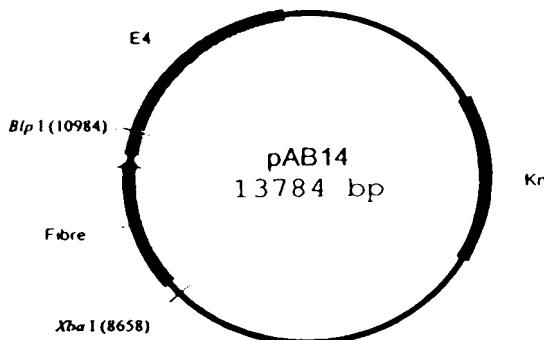
Isolation of a virus containing a foreign DNA insert upstream of the fibre gene by Cre-lox recombination



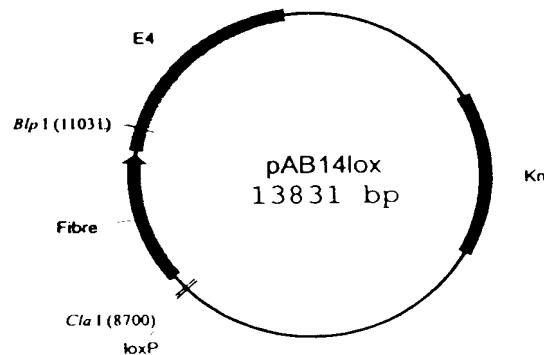
RECOMBINANT VIRUS CONTAINING AN INSERT OF FOREIGN DNA UPSTREAM OF THE FIBRE GENE

Fig. 13

CONSTRUCTION OF pAB14FL0X FOR ISOLATION OF AN AD VIRUS WITH A FLOXED FIBRE GENE



Insert loxP linker
AB6920/AB6921
into Xba I site



Insert loxP linker
AB14680/AB14681
into Bp1 site

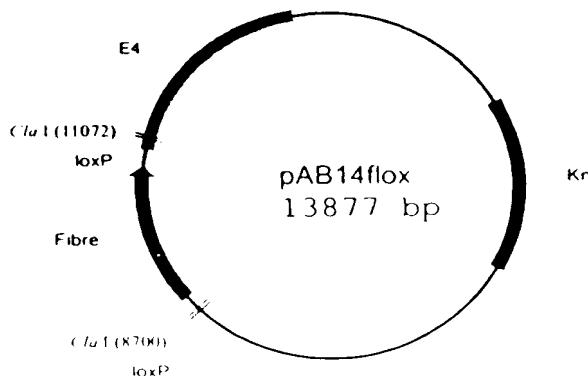


Fig. 14

Cotransfection of 293 cells with pBHG10lox and a "Lox" shuttle plasmid expressing Cre for generation of Ad expression vectors

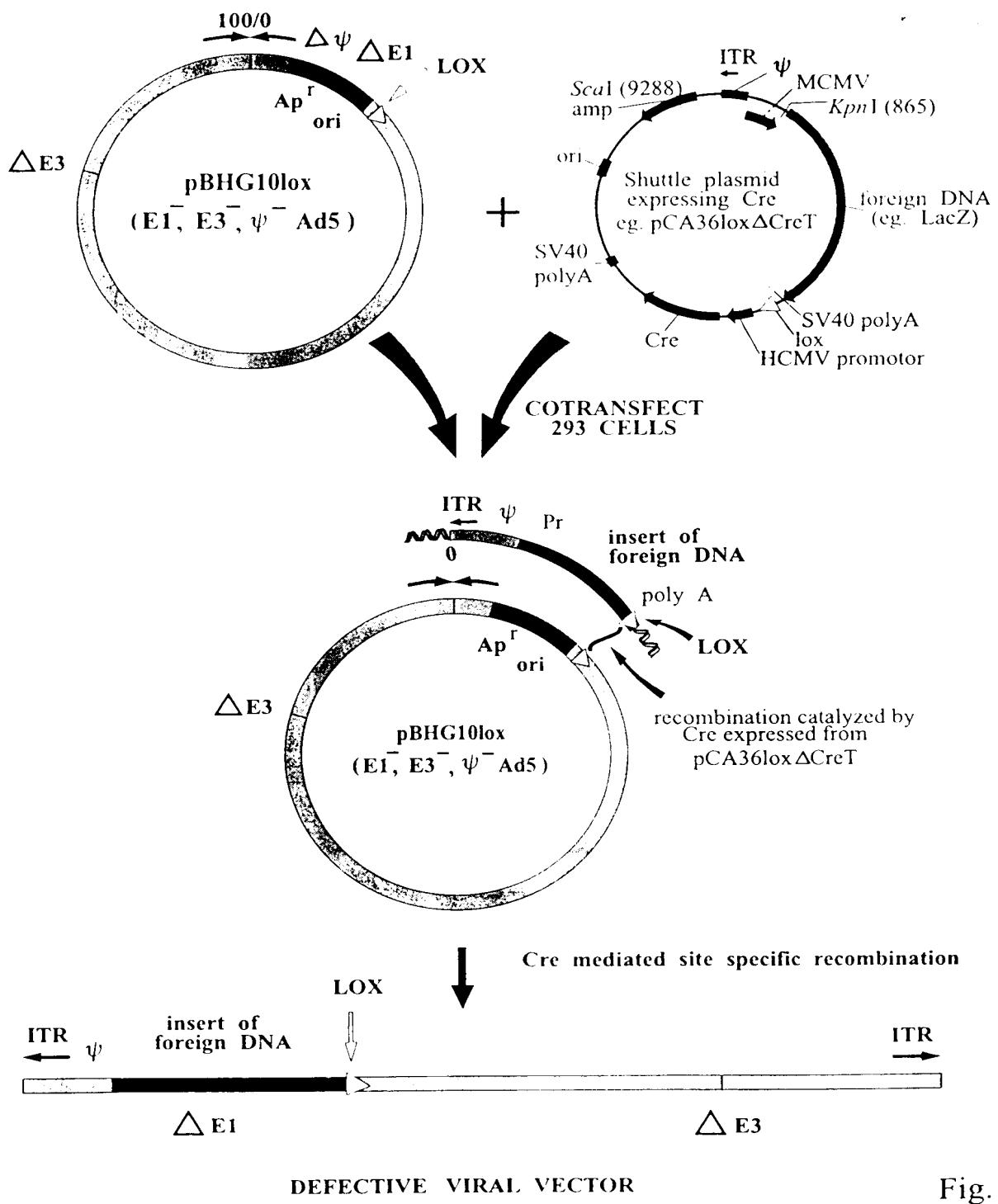


Fig. 8E